ELTU 3014 大英

Assessment

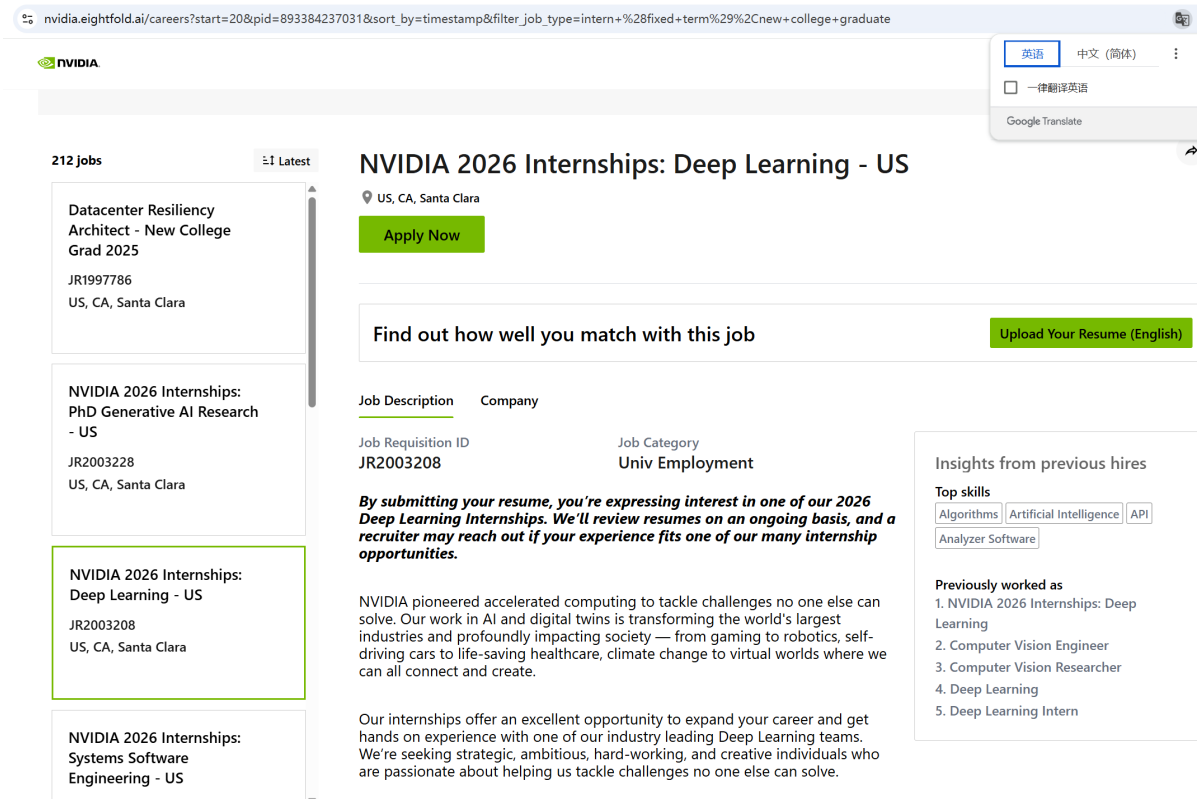
写简历 25%

写求职信 35%

个人小组面试 40%

Module 1 找工作

作业：找一个 job adv



Job Requisition ID

JR2003208

Job Category

Univ Employment

By submitting your resume, you're expressing interest in one of our 2026 Deep Learning Internships. We'll review resumes on an ongoing basis, and a recruiter may reach out if your experience fits one of our many internship opportunities.

NVIDIA pioneered accelerated computing to tackle challenges no one else can solve. Our work in AI and digital twins is transforming the world's largest industries and profoundly impacting society — from gaming to robotics, self-driving cars to life-saving healthcare, climate change to virtual worlds where we can all connect and create.

Our internships offer an excellent opportunity to expand your career and get hands on experience with one of our industry leading Deep Learning teams. We're seeking strategic, ambitious, hard-working, and creative individuals who are passionate about helping us tackle challenges no one else can solve.

Throughout the 12-week full-time internship, students will work on projects that have a measurable impact on our business. We're looking for students pursuing Bachelor's, Master's, or PhD degree within a relevant or related field.

Potential Internships in this field include:

Deep Learning Applications & Algorithms

- Developing algorithms for deep learning, data analytics, or scientific computing to improving performance of GPU implementations
- Course or internship experience related to the following areas could be required: Deep Neural Networks, Linear Algebra, Numerical Methods and/or Computer Vision, Software Design, Computer Memory (Disk, Memory, Caches), CPU and GPU Architectures, Networking, Numeric Libraries, Embedded System Design and Development, Drivers, Real-Time Software

Deep Learning Frameworks & Libraries

- Building underlying frameworks and libraries to accelerate Deep Learning on GPUs
- Contributing directly to software packages such as JAX, PyTorch, and TensorFlow, integrating the latest library (e.g., cuDNN) or CUDA features, performance tuning, and analysis
- Optimizing core deep learning algorithms and libraries (e.g., CuDNN, CuBLAS), maintaining build, test, and distribution infrastructure for these libraries and deep learning frameworks on NVIDIA supported platforms
- Course or internship experience related to the following areas could be required: Computer Architecture (CPUs, GPUs, FPGAs or other accelerators), GPU Programming Models, Performance-Oriented Parallel Programming, Optimizing for High-Performance Computing (HPC), Algorithms, Numerical Methods

What we need to see:

Must be actively enrolled in a university pursuing a Bachelor's, Master's, or PhD degree in Electrical Engineering, Computer Engineering, or a related field, for the entire duration of the internship.

Depending on the internship role, prior experience or knowledge requirements *could* include the following programming skills and technologies:

- C, C++, CUDA, Python, x86, ARM CPU, GPU, Linux, Direct3D, Vulkan, OpenGL, OpenCL, Spark, Perl, Bash/Shell Scripting, Container Tools (Docker/Containers, Kubernetes), Infrastructure Platforms (AWS, Azure, GCP), Data Technologies (Kafka, ELK, Cassandra, Apache Spark), React, Go

Click here to learn more about NVIDIA, our early talent programs, benefits offered to students and other helpful student resources related to our latest technologies and endeavors.

Our internship hourly rates are a standard pay based on the position, your location, year in school, degree, and experience. The hourly rate for our interns is 20 USD - 71 USD.

You will also be eligible for Intern benefits.

Applications are accepted on an ongoing basis.

This posting is for an existing vacancy.

NVIDIA uses AI tools in its recruiting processes.

NVIDIA is committed to fostering a diverse work environment and proud to be an equal opportunity employer. As we highly value diversity in our current and future employees, we do not discriminate (including in our hiring and promotion practices) on the basis of race, religion, color, national origin, gender, gender expression, sexual orientation, age, marital status, veteran status, disability status or any other characteristic protected by law.

Module 2 写简历

换行不需要逗号.

English Address: smallest to largest

> 和中文习惯不同.

Objective Statement

> 可选，也可不写.

ATS

> Applicant tracking systems

下周：

- Read the rubrics on bb. Does Anna's resume meet each criterion?
- Draft your own resume for peer review
    - Include all the necessary sections
    - Tailor for yoru chosen job
    - ATS 优化

Module 3 求职信

格式：书信体

> 建议：block format (左对齐)

TABLE 2: BUSINESS LETTER FORMATS		
BLOCK FORMAT	**MODIFIED BLOCK FORMAT**	**SEMI-BLOCK FORMAT**
The block format is the most common format for business letters. In this format, all text is aligned to the left margin without indentation. The letter is typically single-spaced, with a blank line between paragraphs.	The modified block format is the same as the full block format, with the exception that the sender's address, sign-off, and signature are right-aligned. This format is slightly less formal than the full block format but is still professional.	The semi-block format is the same as the block format, but with indented paragraphs. If you prefer this look, you can choose this format as the semi-block format is also suitable for formal letters.
		

个人信息移到 heading，和 resume 一致

Components

7	body paragraphs	9	call to action	8	closing paragraph
2	date	3	employer's contact information	11	enclosures
6	introductory paragraph	1	personal contact information	4	salutation
10	sign-off (and signature)	5	subject line		

Anna Petrov

[1] Sha Tin, Hong Kong +852 0000 0000 annapetrov@email.com

> 个人地址：同 resume，保持 consistency

[2] July 14, 20XX

[3] Mr. Jack Leung, Chief Operating Officer Ztore HK Limited 22/F Hang Seng Tower, Telford Plaza Hong Kong Science Park Kowloon Bay, Kowloon, Hong Kong

> 雇主地址：正式

> 换行不要逗号

[4] Dear Mr. Leung,

> 如果不知道名字：Dear Manager / Dear HR

[5] RE: Application for Data Team Intern, Strategy Data Solution (Part-time / Full-time)

[6] I am writing to express my interest in the Data Team Intern position at Ztore HK Limited advertised on JobsDB. As a penultimate-year student at The Chinese University of Hong Kong, majoring in Systems Engineering and Engineering Management with a minor in Data Analytics and Informatics, I am excited about the opportunity to contribute my skills and passion for data analysis and machine learning to your esteemed company. With a natural drive to leverage data-driven insights for optimizing business processes, I am confident in my suitability for your data team.

[7] Pursuing my passion for data science, I have actively engaged in various projects, honing my expertise in data analysis and statistical techniques. One notable project involved utilizing Python to gather and process a global dataset of COVID-19 metrics, during which I gained practical experience in data cleaning and transformation. I conducted a thorough statistical analysis to explore the relationship between anti-COVID-19 measures and global socioeconomic metrics, effectively presenting the results using Agglomerative Clustering and Data Visualization. Additionally, I developed a forward-looking data prediction model, employing LSTM and regression ANN techniques to forecast future trends. As a highlight of this experience, I was given the opportunity to present my work to a panel of departmental experts who provided invaluable feedback, enhancing my potential for future data-driven endeavours.

[7] In 20XX, I further honed my technical expertise by actively participating in the Huawei ICT Competition. Advancing to the competition finals among 600 other undergraduate and postgraduate students in Hong Kong, I was honored to receive the Potential Prize Award from Huawei, recognizing my problem-solving abilities and proficiency in Cloud Computing. The competition presented real-world challenges that demanded innovative solutions and underscored the power of data-driven approaches in transforming businesses. This experience reinforced my commitment to using advanced data science tools to generate valuable insights that drive meaningful business outcomes.

[8] While my resume provides a concise summary of my experience and projects, **[9]** I am eager to discuss in person how I can contribute to your company's focus and mission. My passion for data science, coupled with relevant programming skills, makes me an ideal candidate for the intern position. I look forward to the possibility of joining your team and thank you for considering my application.

[10] Yours sincerely, Anna Petrov

> "Sincerely" if you know the name, "Faithfully" if you don't know who will get this letter

[11] Enclosure: Resume

评价：

organization

strengths:

- standard business format
- logical structure
- linking words to improve cohesion

缺点

- paragraph balance
- redundant
-

内容

reseach about company - link with your ability

highlight:

- relevant skills
- experiences
- qualifications

不要太多 I ... 用不同句式

项目介绍：不用提到 resume 的所有内容. 挑重点

公司信息：以英伟达为例

- Intellectual Honesty: making mistake is not terrible. It's more important to quickly find it and fix problems.
- high effiency

> 求职信中："In my DL project, our initial model failed because of ....
>
> Instead of trying to hide the problem, I performed some analysis, realized the loss function was wrong, and improved it. This saved our team three weeks of wasted time
>
> I thought this can perfectly fit the values of your company.

NVIDIA is no longer just a "graphics card company"; it has evolved into a **full-stack computing platform** and the "engine" of the modern AI revolution. For a computer science student applying for a Deep Learning (DL) role, understanding their shift from hardware to "AI factories" is crucial.

Below is a breakdown of NVIDIA's core values, their future strategic plans, and how you can position yourself as the perfect fit.

1. NVIDIA's Core Values

NVIDIA's culture is famously "flatter" and more project-oriented than most tech giants. They prioritize:

- **Intellectual Honesty:** This is arguably their most important value. It means admitting mistakes quickly, seeking the truth over being "right," and operating without office politics.
- **Innovation & Risk-Taking:** They make "massive, calculated bets" (like CUDA and the Blackwell architecture) years before the market is ready. They value employees who can "dream big and start small."
- **Speed and Agility:** They move at "light speed." They expect teams to adapt to new technological breakthroughs (like Generative AI or Agentic AI) overnight.
- **One Team:** At NVIDIA, "no one fails alone." They value "extreme collaboration" over individual silos.
- **Excellence & Determination:** They don't measure themselves against competitors; they measure themselves against the "laws of physics" (the "Speed-of-Light" test).

2. Strategic Plans (What they are building NOW)

To show you are "perfectly fitted," you must align with their 2024–2026 roadmap:

- **From Training to Inference:** While they dominated AI training, their 2025 focus is **Inference at Scale**. They want to make AI reasoning 100x more efficient.
- **Physical AI & Robotics:** Through platforms like **Omniverse** and **Project GR00T** (humanoid robots), they are moving AI from digital screens into the physical world.
- **Agentic AI:** They are shifting from "chatbots" to "AI agents" that can reason, plan, and act autonomously.
- **Sovereign AI:** They are helping nations build their own domestic AI infrastructure, moving beyond just selling to big US tech firms.

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3. How to Show You Are the "Perfect Fit"

When applying or interviewing, use these strategies to demonstrate alignment:

A. Demonstrate "Intellectual Honesty" in your Projects

Don't just talk about your successes. In your resume or interviews:

- **How to say it:** "In my DL project, our initial model failed because of [X]. Instead of trying to hide the flaw, I performed a first-principles analysis, realized my assumption about the loss function was wrong, and pivoted. This saved us three weeks of wasted training time."
- **Why it works:** It shows you value **truth over ego**, which is the "NVIDIAN" way.

B. Highlight "Full-Stack" Thinking

NVIDIA hires people who understand how software interacts with hardware.

- **How to say it:** "While I developed this Deep Learning model in PyTorch, I also profiled its performance on the GPU. I used **TensorRT** (or basic CUDA) to optimize the kernels, reducing inference latency by 40%."
- **Why it works:** It shows you aren't just a "math student" but someone who understands **accelerated computing**.

C. Connect your Research to "Physical AI" or "Inference"

If your coursework or projects involve computer vision, robotics, or model compression:

- **How to say it:** "I am particularly interested in NVIDIA's work on **Omniverse** because my project on [Your Project] focused on real-time simulation, which aligns with Jensen Huang's vision of 'Physical AI' where models interact with the laws of physics."
- **Why it works:** It proves you are following their **current strategic shifts** (moving from 2D data to 3D simulation).

D. Use the "Speed-of-Light" Language

NVIDIA loves the phrase "First Principles."

- **How to say it:** "When I approach a coding problem, I don't just look for a library that works; I look at the **first principles** of the algorithm to ensure there is no waste in the compute cycle."
- **Why it works:** It signals that you share their obsession with **efficiency and excellence**.

Summary Checklist for Your Application:

1. **Skills:** Ensure your resume mentions **Python, C++, PyTorch/TensorFlow**, and ideally **CUDA** or **TensorRT**.
2. **Values:** Prepare "STAR" stories (Situation, Task, Action, Result) that specifically highlight **mistakes you learned from** (Intellectual Honesty) and **collaboration** (One Team).
3. **Vision:** Mention your excitement for the **Blackwell** architecture or **Agentic AI** in your cover letter or screening calls.

resume：

completed a website project with my teammates for Hong Kong cultural events in a web devolopment course

application letter 拓展：

During my junior year, I led a web development project for a Hong Kong cultural events platform. In this project, I demonstrated honesty spirit required by your company, to identify and resolve performance early in the development process.

This project enhanced my ability to deliver full-stack solutions under pressure and proved that I was ready to contribute to NVIDIA's mission of building the 'AI factory' of the future through scalable and efficient software engineering.

Peer Review

email: use gmail

body too long

Use Faithfully if don't know hr name

DUE：2月22 上传求职文件

Module 4-5 面试

individual interview

panel interview

group interview

> Panel interview（多对一面试）与 group interview（小组/群体面试）的主要区别在于人员构成和考察重点。Panel interview 是多位面试官面试一位候选人，侧重于全面评估个人专业能力；Group interview 是多位候选人同时面试，侧重于观察团队协作、沟通和人际互动能力

technical interview

phone screen

问题风格

open-ended questions

behavioural questions

questions about technical

...

closing: do you have any questions for us?

- don't say no thanks
- 前几轮 don't ask about salary
- 给对方可以 talk 的空间. 例：
  - If I am hired, what would my typical day look like?
  - What type of employee tends to succeed at this company?
  - What do you like most about working here?
  - Have I answered all of your questions? Would you like me to clarify or elaborate on anything?
  - Do you have any hesitations about my qualifications?
  - Is there anything else I could provide to help you make a decision?
- avoid sensitive, yes/no, simple or overly difficult questions

自我介绍

1-2 minites

university education

work experience

skills relevant

3 parts: opening, body, closing

opening - who? uni? which why you choose your major

> 学校名字要提到

body - knowledge/skills/experiences

> enthusiasm - not too general

closing - eager to join your team..

> 结尾 Thank you

其他:

- eye contact

Hi, I'm Steve Weng, a year 3 Computer Science student at CUHK (the chinese university of hong kong). I specialize in deep learning, with hands-on experience implementing VAEs in PyTorch and PCA for face recognition. Having studied at UC Berkeley, I'm already adapted to the Bay Area's environment and am ready to contribute to NVIDIA's mission of solving challenges that no one else can. I'm eager to apply my skills in Python and strategic AI to your Deep Learning team.

交流技巧

描述事物（activity: building block game）

- overview first (answer the answer first)
- in a logical order
- more gesture
- not use too much technical terms, but clear & accurate daily words

讲故事（past experience）

- 突出 I 的作用（而不是 We...）

Linking back

- to the company expectation

内容

behaviour question

- tell me a time when... (check experience)
    - STAR (situation, task, action, result)

self-introduction question

- Tell me about yourself
- What makes you the best candidate for this job?

> link to the job
>
> dont be arrogant
>
> confident

下节课：

Draft and practice your 1-minute self-introduction

Hi, I'm Steve, a year 3 computer science student at the chinese university of hong kong. I chose computer science because I love using technical skills to solve hard problems. I specialize in deep learning, with hands-on experience implementing VAEs in PyTorch and PCA for face recognition. Having studied at UC Berkeley last summer, I'm already adapted to the Bay Area's environment and am ready to contribute to NVIDIA's mission of solving challenges that no one else can. I'm eager to apply my skills in Python and strategic AI to your Deep Learning team. Thank you.

小组面试

2026.3.18

讨论 challenge：challenge, hypothetical scenario, potential outcomes (positive/negative)

结合自己的 experience

During my engineering studies, I participated...

Claim-Grounds-Warrant-Backing-Rebuttal

1分钟自我介绍+6分钟Q&A

准备5份copies of your resume, job application letter and job advert

面试准备

In preparation for the panel interviews taking place over the next few weeks, please make sure you:

- Read the assignment brief on pages 5-6 of the Course Outline, paying particular attention to the type of questions you should prepare for
- Read the assessment rubric to understand the marking criteria, taking note also of the possible mark deductions at the bottom of the document
- Print five hard copies of your job advert, resume and application letter -- **your interview cannot proceed without these**!
- Look out for an email from me **on the morning of your interview day** stating your interview time

You are welcome to update your resume and application letter for the interview in light of my feedback, but bear in mind that these documents will not be assessed again.