

## Full Name

Phone number | email@email.edu | Portfolio | LinkedIn | GitHub

### EDUCATION

University, *Sc. B. Computer Science*, 4.00/4.00 GPA

Place Expected Graduation **May 2026** Relevant

**Courses:** Deep Learning, Software Engineering, Computer Systems, Database Management Systems, Data Engineering, Large Language Models (LLM), Computer Vision, Statistics, Machine Learning, Data Science, Data Structure and Algorithms **Organizations:** Entrepreneurship Program Tech Team, Machine Intelligence Community **Certificates:** Advanced Data Science with IBM, Machine Learning Engineering for Production (ML.Ops)

### WORK EXPERIENCE

Big Tech, Software Engineering *Intern*

Place | Jun 2024-Aug 2024

- Developed and published SDK integration examples in **Next.js**, **Vue.js**, and Angular to streamline enterprise integration for the **Face Liveness SDK**, reducing setup process by **50%** and improving accessibility for enterprise developers Contributed to **rapid** adoption such that within **one** month of release, **24 enterprises** used the SDK through these examples, resulting in **2000+ API** calls, demonstrating immediate impact with enterprise clients
- Configured **Azure DevOps** pipelines in **YAML** to automate build, deployment, and testing using continuous integration and continuous deployment (CI/CD), reducing manual errors and speeding up development cycle
- Deployed and presented web apps with the **ASP.NET server stack** on **Microsoft Azure App Service**

University, Undergraduate *Teaching* Assistant

Place Jan 2024-May 2024

- Improved **Computer Vision conceptual** questions for **130+** students, deepening student understanding on image extraction Implemented partial credit system on autograding server using **Python**, correcting the grades of **100+** submissions Answered or assisted on **40+ course** forum questions about programming assignments and conceptual questions Mentored final projects about facial emotion detection and **3D** reconstruction from drone footage

Startup, *Founding Engineer*

- Led website frontend development using **React.js** with **Next.js**, impacting **7000+ users**

Virtual | May 2023-Nov 2023

- Worked with content and engineering team members in an **agile** environment with **Kanban** for project tracking helping the startup join the **Y Combinator** accelerator program (YC)
- Integrated **Firebase Firestore** to handle content queries and record all user interactions with the website, including profile changes, likes, dislikes, and question notes, totaling **1M+** daily reads and writes
- Developed and delivered new features with TypeScript including an auto-generating mental math game played **16000+** times

Startup, *Software Engineering Intern*

Place | Jun 2023-Aug 2023

- Deployed a machine learning model improving **Sharpe Ratio by 22%** in backtests, managing **over \$100 million in assets** Backtested and documented 200+ ensemble model configurations in **AWS Sagemaker** using **Python** to optimize for Sharpe Ratio while minimizing Churn Rate, Market Exposures, and other risk metrics
- Proposed and validated a new alpha uniqueness metric with **Pandas Python library** for **2000+** users

### LEADERSHIP EXPERIENCE

Machine Intelligence Community, Executive *Board*

Place Oct 2022 - Current

- Taught **160+ university** students high-level topics in language modeling and image processing including **Generative Pretrained Transformers (GPT)** and **Neural Style Transfer**

- Developed interactive teaching material used 400+ times with **Jupyter** Notebook to guide the model development process

## PROJECTS

**Dynamic** Environment Generation with **Image** Diffusion | Python, TensorFlow, *NumPy*

- Led a team of **three** to develop an **interactive video** generation model for a Master's level **Deep Learning** class
- Engineered a Latent Action Model using **TensorFlow**, learning **unsupervised** video actions without any data on interactivity
- Developed preprocessing pipelines with TensorFlow, **Keras**, and **NumPy** to efficiently compress 700,000 **video frames** Presented our innovations to **40+ professors, PhD students, and** classmates
- GitHub Project Repository

## SKILLS

**Technical Skills:** Python, Javascript, Typescript, R, Java, C#, SQL, HTML, CSS

**Development Tools:** GitHub, Docker, Amazon Web Services (AWS), Microsoft Azure, Google Cloud

**Web Frameworks:** Django, Flask, FastAPI, Next.js, Vue.js, Angular, Node.js, ASP.NET

**Language:** Bilingual proficiency in Mandarin Chinese and English