





Cyrus Singer

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EDUCATION

University of Pennsylvania

Bachelor of Science in Computer Science

May 2026

Current GPA: 3.53/4.0

Relevant Courses: Networks and Security, Engineering Probability, (graduate level) Internet and Web Systems

University College School (UK)

July 2023

A Levels: *Physics A*, Economics A, Mathematics A*, Further Mathematics A*

GCSE/IGCSE (all 9s): Mathematics, English Literature, English Language, Spanish, Chemistry, Biology, Computer Science, Physics, Geography, Drama

SKILLS

Languages: JavaScript/TypeScript, Java, Kotlin, Python, C/C++/C#, HTML/CSS, L^AT_EX, Bash, Lua, Haskell, x86

Tools: GCP(Functions, Metrics, Cloud Run, IAM, Cloud Storage, Load Balancer), AWS(EC2, S3, Sagemaker, IAM), Firebase, Docker, Git, Tailwind CSS, Unix Shell, GDB

Frameworks: React, Node.js, Express.js, JUnit, Jest

Libraries: Tensorflow, pandas, NumPy, Matplotlib

WORK EXPERIENCE

Technical Lead on Bizzybots platform | Wharton OI^D Lab

2022 - Present

- I lead development of an LLM-powered chatbot platform used for negotiation research and education
- The development team is 5 people. I manage the development schedule, ensure product quality, and direct system design
- I also do full-stack, security, and devops development tasks.

Reference available upon request

Intern | Olivetree Financial Ltd

Summer 2019

- Project - Developed web scraping tools for the financial research team
- Fundamental Analysis - Conceived, researched, presented a long-short investment proposal (Advanced Micro Devices)
- Other tasks - Assisted head research analyst; aided chief compliance officer by making graphics

PERSONAL PROJECTS

RL Experiment | Java, Python, Tensorflow, Deep Q Learning | [source code](#)

2020

- Developed a java physics environment in 2d to simulate agents in
- Tested multiple ML techniques on said agents such as double deep Q learning
- Built a training data pipeline to help train agents to complete a 2d obstacle course

Tensorflow 2 ML Package | Python, Tensorflow | [package source](#), [usage](#)

2022

- Developed and documented a python package to simplify the process of creating and training ML models
- Added tools for automated training pipelines using callbacks for control
- Used the tools to train a CNN to classify images of flowers

Brittle Object Simulation | Python, GPU optimization | [source code](#),

2022

- Program simulated the internal stresses of brittle lattices under forces and collisions
- Used a gradient descent method to resolve internal stresses

Weather Balloon Operating Code & Circuits

Python, Embedded Systems, Serial, USB, PWM, I²C | [source code](#)

Launched in 2019

- Software took measurements from onboard sensors, stored and transmitted the compressed data via a satellite link
- Built for hardware and software redundancy
- Worked with a partner who handled power and ballast, and lift systems of the balloon
- Received the CREST Gold award for the project