





Cyrus Singer

 github.com/brianbob12  [linkedin.com/in/cyrus-singer-35b4a5221](https://www.linkedin.com/in/cyrus-singer-35b4a5221)  japaneserhino@gmail.com  (561) 403-8133

EDUCATION

University of Pennsylvania

May 2026

Bachelor of Science in Computer Science

Current GPA: 3.64/4.0

Relevant Courses: Linear Algebra and Optimisation (graduate level), Internet And Web Systems (graduate level)

University College School (UK)

July 2023

A Levels: *Physics (grade A*), Economics (A), Mathematics (A*), Further Mathematics (A)*

GCSE/IGCSE (grades all 9/9): 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, \LaTeX , Unix Shell, Lua, Haskell, x86, RISC-V

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

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

Libraries: Pytorch, Tensorflow, pandas, NumPy, Matplotlib

WORK EXPERIENCE

Technical Lead on Bizzybots Platform | *Wharton Behavioral Lab*

2022 - Present

- I am leading development of an LLM-powered chatbot platform used for negotiation research and education
- I manage the five-member development team, set the development schedule, ensure product quality and direct system design
- I personally handle many full-stack, security, and DevOps tasks

Reference available upon request

Intern | *Olivetree Financial Ltd*

Summer 2019

- Developed web scraping tools for the financial research team
- Conducted fundamental analysis. Conceived, researched and presented a long-short investment proposal (focused on Advanced Micro Devices Inc.)
- Assisted head research analyst and aided chief compliance officer

PERSONAL PROJECTS

Weather Balloon Operating Code & Circuits

Python, Embedded Systems, Serial, USB, PWM, I^2C

Launched in 2019

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

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

2022

- Developed program that simulated the internal stresses of brittle lattices under forces and collisions
- Used a gradient descent method to resolve bond stresses
- Optimized the program to run on a GPU

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

2020

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