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Education

University of Maryland *BS, Computer Science BS, Physics* Aug 2024–Estimated May 2027

- Dean's List (all semesters), President's Scholarship (\$12,500/year)
- Coursework: Introduction to Machine Learning, Data Science, Introduction to Quantum Computing, Advanced Data Structures, Algorithms, Programming Languages, Linear Algebra

Work Experience

Anxin Management Boston, MA
Intern June 2025–Aug 2025

- Doubled manager bandwidth and reduced expected response time by 10 minutes by designing and writing an AI chatbot using Python, LiteLLM, and Google Gemini
- Reduced document retrieval time by two minutes by integrating the chatbot with the property management system using Swagger Codegen

Hiworld Shenzhen, China
Intern July 2024–Jan 2025

- Reduced labor requirement of a common image understanding workflow by 25% by creating an AI-powered Python application
- Deployed and documented the customer support phpBB forums in a cloud server on LAMP and Postfix

Projects

Quantum Algorithm for the Kidney Exchange Problem *Bitcamp Quantum Winner* Apr 2025

- Implemented a quantum algorithm using PennyLane
- Converted kidney transplant compatibility datasets to DOcplex integer programs using Python
- Verified quantum solutions using the PuLP optimization library
- Visualized quantum algorithm effectiveness by plotting results using Matplotlib

Gunn High School Alumni Directory Website Feb 2023–June 2023

- Deployed, secured, and managed a Supabase backend containing a PostgreSQL database
- Tracked project milestones using GitHub projects
- Designed and implemented a school email verification system using Next.js, Nodemailer, Nhost, and GraphQL
- Wrote an authentication backend using Fastify and SQLite

Scheme Programming Language Interpreter Nov 2022–Feb 2023

- Designed and wrote an interpreter supporting closures and variadics in modern C++ and the standard library

Virtual Character Live-Streaming Web App *GunnHacks 9.0 2nd Place* Jan 2023

- Allowed website visitors to enter a multi-billion dollar market by live-streaming on popular platforms as VTubers without installing software by developing a Next.js web app
- Integrated webcam-tracked virtual characters using Kalidokit
- Manipulated live video and audio streams using MediaPipe Holistic, Three.js, and the MediaStream API

Skills

Certifications: CodinGame C++, coding speed, and collaboration certificates, USACO gold, 3x AIME qualification
Programming Languages: C++, TypeScript, Python, Java, C, JavaScript, HTML, Bash/Shell Scripting, SQL
Libraries: LiteLLM/OpenAI Platform, React, PyTorch, Pandas, NumPy, Scikit-Learn, Matplotlib, SciPy, Node.js
Frameworks and Tools: Pytest, JUnit, Next.js, Flask, Git, Linux, Jupyter, Vagrant, Docker, Google Cloud (GCP)