Eric Lam

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EDUCATION

Hunter College | Daedalus Scholar   New York, NY
Bachelor of Arts in Computer Science, Minor in Math | **GPA: 3.89**   *Dec 2025*
Relevant Coursework: Data Structures, Algorithms, Discrete Mathematics, Matrix Algebra, Applied Statistics, Computer Architecture 1 & 2, Software Analysis and Design, Computer Theory 1, Operating Systems, Database Management, Parallel Computing, Flutter App Development

EXPERIENCE

Software Engineer Intern   July 2024 – August 2024
AuriStor Inc.   *New York, NY*
- Engineered a **React.js** dashboard for a global namespace file system, transforming **20+ CLI commands** into an user friendly GUI interface, which enabled non-technical users to perform system operations efficiently.
- Developed comprehensive client deployment documentation covering **NGINX reverse proxy setup**, security hardening, and troubleshooting guides, streamlining client onboarding processes.
- Restored an legacy Apache authentication module by refactoring deprecated dependencies and navigating incomplete documentation to enable secure AFS web logins, **expanding user access by 100 percent**.

Backend Software Engineer Intern   June 2023 - Aug 2023
Pulp Technology   *Remote*
- Led a team of **5 interns** to design and deliver a minimum viable product(MVP) for a text analysis tool, developing a scalable GraphQL API, enabling users to identify key rhetorical elements, resulting in improved user insights.
- Architected scalable Neo4j database schema with **50+ data models**, implementing optimized relationship patterns and strategic indexing to maintain **sub-100ms query response times.**
- Engineered a data pipeline integrating custom ML models with OpenAI API, processing text data with high; optimized pandas and numpy scripts to **reduce processing time by 60%**, improving data processing efficiency.

Coding and Robotics Instructor   July 2022 - Present
Kwatt.io Tech Center   *Brooklyn, NY*
- Taught classes to **100+ students**, including web development classes covering **HTML, CSS and JavaScript**.
- Collaborated with other instructors to develop personalized curriculums featuring **30+ projects**, encompassing algorithmic challenges that increased student engagement and improved understanding.
- Mentored students' programming skills through **50+ lessons** using various robotic sensors, leading to enhanced problem solving abilities and project success.

PROJECTS

Language Learner | Next.js, Express.js, Prisma, Supabase, GraphQL   May 2024 - Present
- Designed and built a full stack **language learning application** utilizing Next.js and a GraphQL API.
- Incorporated traditional study techniques alongside AI-generated features, providing an adaptive learning experience for users.
- Implemented a **spaced repetition flashcard system** to optimize vocabulary retention, using algorithms that adjust review intervals based on user performance, ensuring efficient and effective learning.

Student Profile Tracker | React.js, Express.js, MongoDB, REST API   Apr 2023 - Oct 2023
- Architected and deployed full stack student tracking platform **handling 100+ concurrent users**, implementing JWT authentication, and role-based access control.
- Implemented a submission feature for more efficient reporting and analysis, streamlining the process and **reducing administrative workload** for managing student data.
- Personalized content recommendations using user data led to an **40% increase** in student participation in aligned coding and robotics projects.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript/TypeScript, HTML, CSS, SQL, Go, Dart
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Flutter, REST APIs, GraphQL
Developer Tools: Git, Docker, GCP (Firebase, Cloud Run, Cloud SQL), AWS (EC2, Lambda, S3), Jest
Database & Data Management: PostgreSQL, MongoDB, Firestore, Supabase, Neo4j, Prisma