ZHAO YU LIN

(917) 498-0423 · zhaoyu0305@gmail.com · U.S. Citizen · linkedin · github.com/ZhaoYuLL · NY

EDUCATION

Stevens Institute of Technology

Bachelor of Science in Computer Science (GPA: 3.80/4.00)

Expected May 2026

Coursework: Data Structures, Algorithms, Web Development, Database Management, Agile Methodologies, Discrete Structures, Computer Architecture, Systems Programming, Operating Systems, Linear Algebra, Statistics

EXPERIENCE

unRetire - Software Engineer

Aug 2024 - Present

- Spearheading the development of a job board app for recent retirees using React Native, MongoDB, and AWS
- Reduced app load times by 40% through improved database parsing with query caching and connection pooling
 eBay Research Assistant
 December 2023 May 2024
 - Developed innovative e-commerce recommendation system using few-shot adaptation and adversarial learning in PyTorch, incorporating demographic and product-specific invariances to boost SEO recommendation accuracy
 - Created interactive React/D3.js dashboard visualizing user metrics like query sequences and product interactions
 - Leveraged Apache Spark to optimize processing of 26M+ user queries, increasing model training speed by 10%

Google - Software Engineer Fellow

March 2022 - June 2022

- Built a posture detection program with TensorFlow machine learning to detect back issues from remote work
- Achieved 92% precision and 89% recall on 50,000+ images by optimizing the model with cosine similarity
- Integrated the posture detection functionality into a full-stack website using React, Python, and Flask
- Used MongoDB for user preferences, employing flexible schema for decreasing query response times by 20%

Carnegie Mellon University - Research Assistant

January 2022 - June 2022

- Deployed a trajectory optimization algorithm using PyTorch and sci-kit that enhanced autonomous vehicle safety
- ullet Raised lane change detection accuracy by over 33% by leveraging the safety constraints in road test simulations

Robotics For All - Technology Development Intern

January 2021 - June 2022

- Designed and delivered comprehensive Python and Java curriculum to 100+ students using Tkinter and Swing
- Boosted partnerships with schools by 10% by using Python and API calls to automate the outreach system Leadership

Stevens Blueprint Club - Website Lead

May 2024 - Present

- Drove cross-functional outcomes with 15+ UX designers and web developers to redesign our website, creating a consistent and scalable user experience across web and mobile, which improved brand visibility
- Reduced website load time by 20% through image optimization, efficient code splitting, and lazy loading

Ethnic Student Council - Secretary

April 2023 - May 2024

• Expanded the ethnic student body by over 200% from last year by organizing events with 20+ cultural clubs

Projects

Birdle | React, Express, Node.js, PostgreSQL, GraphQL, Tailwind, Typescript, Jest

Aug 2024 - Sep 2024

- Implemented an interactive and educational web game where users can guess bird species based on their songs
- Streamlined data retrieval with GraphQL, cutting API requests by 30% and enhanced app response time by 25%

Digi-Drobe | Express, Node.js, AJAX, JQuery, MongoDB, AWS, Handlebars, JavaScript

Dec 2023 - May 2024

- Engineered a full stack social media web application facilitating outfit uploads and mix-and-match capabilities
- Reduced upload times by 30% through optimized file handling with S3 uploads and MongoDB metadata storage

SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL

Technologies: React, TypeScript, Tailwind, Node.js, Next.js, Django, MongoDB, PostgreSQL, Linux, Git, Docker **Concepts:** Scrum, REST API, Unit Testing, System Design, Distributed Systems, Frontend, Backend, Full-stack, Software Engineering, Software Development, Software QA & Testing, Embedded Engineering, Object Oriented Development, Networking, DevOps, System Design, CI/CD, Data Analysis, Machine Learning