

Eric Zheng

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EDUCATION

Tufts University, School of Engineering | *GPA: 3.76*

Master of Science in Computer Science

Medford, MA

Sep 2023 – Dec 2025

Shanghai Institute of Technology

Bachelor of Science in Materials Science

Shanghai, China

Sep 2014 – May 2018

EXPERIENCE

Software Engineering Intern | *Cloud, LangChain, RAG, Full-stack*

May 2025 – Aug, 2025

Ooln

Austin, Texas

- Spearheaded migration of core infrastructure from AWS to GCP with **Terraform**, automating provisioning via Cloud Build CI/CD pipelines—30% faster deployments, 20% cost reduction.
- Developed a Google Chrome extension using the WXT framework, integrating AI agent coordination via **LangChain** and **Retrieval-Augmented Generation (RAG)** to enhance trading insights and reduce data latency by 30%.
- Developed RESTful microservices and built **React** components using **TypeScript** and **Tailwind CSS** for internal portals; containerized and deployed services on **Google Kubernetes Engine (GKE)**; integrated **MySQL** via JDBC and managed databases with Google Cloud SQL.

Software Engineering Intern | *Full-stack, User Testing, Agile*

May 2024 – Aug 2024

TeachTuit, Inc.

Los Angeles, CA

- Built dynamic front-end with **ReactJS** for AI Math Tutor; consumed **REST APIs** and integrated with **Node.js/Express** backend and **MongoDB**, using **Redis** to cache frequent queries and optimize response times.
- Conducted iterative usability testing with two student users using **UserZoom** for real-time interaction tracking and feedback analysis, identifying usability issues and leading to a 40% improvement in problem-solving accuracy.
- Collaborated effectively within an **Agile** team by actively participating in daily stand-ups and sprint planning using **JIRA**, documenting feature requirements in Confluence to ensure clear cross-team communication.

Product Manager | *Data Analysis, Product Management*

May 2018 – Aug 2023

OneBest International Education

Shanghai, China

- Analyzed 15k+ enrollment records with **SQL & Tableau** to spot seasonal demand gaps, launched 5 new courses that boosted quarterly revenue 18%, and raised average student test-score gains by 30%.
- Oversaw the design, launch, and overall product strategy of a vocabulary learning system; solely authored and published [A Comprehensive Guide to SSAT Vocabulary](#), a companion book that ranked #1 on Amazon China.
- Led cross-functional teams (tutors, curriculum writers, sales, and marketing) across China and the U.S. to ensure **scope alignment** and on-time rollouts; strengthened **written and verbal communication** by leading group projects and collaborated with team members to achieve our goals, driving a 25% increase in scheduling efficiency.

PROJECTS

DistribCache [Link](#) | *Go/Golang, Distributed Systems, Networking*

Sep 2025 – Present

- Engineered a distributed peer-to-peer storage system in Go with custom **TCP transport**, **AES encryption**, and **SHA1 content-addressing** that enables secure file replication across network nodes with automatic TTL-based expiry, reducing storage overhead by auto-deleting expired content.
- Architected **fault-tolerant file synchronization** using broadcast messaging and metadata persistence that maintains data consistency across multiple nodes, supporting both online propagation and offline recovery scenarios.

Car Rental Booking App [Link](#) | *MERN Stack*

Jan 2025 - May 2025

- Built a full-stack **car-rental app** with **MERN** (React + React Router + Tailwind CSS, Node.js/Express, MongoDB/Mongoose), integrating **JWT** authentication and **RBAC** for secure browse → details → checkout flow.
- Developed an admin dashboard for vehicle/pricing CRUD, search/filters, and **ImageKit** uploads; deployed on **Vercel** with **GitHub Actions-based CI/CD** and environment secrets, connected to MongoDB Atlas, and optimized API queries and bundle size for sub-second performance in production.

TECHNICAL SKILLS

Languages: Python, Ruby, JavaScript, TypeScript, Java, C, C++, SQL, HTML/CSS, Golang

Technologies and Tools: Spring Boot, React, JDBC, REST APIs, FastAPI, Node.js, Express, Docker, Kubernetes, AWS (ECS, RDS), GCP, Terraform, Git, JIRA, Confluence, Agile, JUnit, MongoDB