Eric Zheng

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EDUCATION

Tufts University, School of Engineering | *GPA: 3.76* Medford, MA
Master of Science in Computer Science *Sep 2023 – Dec 2025*

Shanghai Institute of Technology Shanghai, China
Bachelor of Science in Materials Science *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.

Go-getter | *Sprint Boot3, Docker, Kubernetes* May 2025 - Present

- Built a scheduling & notification microservice in Java17 with SpringBoot3, using JPA/Hibernate to persist data in Database; the REST API now handles 1k+ weekly reminders for LGBTQ+ SAT learners with <120ms P95.
- Containerised all Java&Node workloads with Docker and orchestrated releases via Kubernetes + GitHub Actions CI/CD, enabling blue-green deployments that cut update downtime to <30s.

TECHNICAL SKILLS

Languages: Python, Ruby, JavaScript, TypeScript, Java, C, 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, Flask