

# Eric Zheng

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## TECHNICAL SKILLS

**Languages:** Python, 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

## 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%.
- 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

**DecentraLib** | *Decentralized E-Library System*

Sep 2025 – Present

- Implemented **distributed systems techniques** (peer-to-peer sync, eventual consistency, conflict resolution), achieving 99.9% data availability, 30% lower latency in book searches, and seamless offline-to-online user experience.
- Deployed microservices with Docker and Kubernetes, integrating CI/CD pipelines, JWT authentication, and RBAC, resulting in **zero-downtime** updates, scalable multi-node support, and faster developer release cycles.

**Car Rental Booking App** | *MERN Stack*

Jan 2025 - May 2025

- Developed a full-stack car rental platform with **secure user authentication** and real-time booking, improving user experience and reservation efficiency.
- Built an admin dashboard with **CRUD operations** and integrated vehicle search, filtering, and ImageKit for optimized image management, streamlining operations.
- Deployed the application on Render, delivering a reliable, scalable, and accessible platform for end-users.

## 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*