

Ricky Zheng

Software Engineer

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TECHNICAL SKILLS

Programming Languages: Java, Python, Javascript, Ruby, R, SQL, Node.js

Frameworks: Spring Boot, React, Flask, PySpark, Ruby on Rails

Databases: PostgreSQL, Oracle SQL, Aurora PostgreSQL, AWS RDS (Relational Database Servers), MongoDB, SQLite3

Infrastructure (CI/CD): Terraform, Jenkins, Harness, Spinnaker, Docker, Kubernetes

AI/ML Technologies: Ollama, LLMs, LangChain, RAG, Gen AI, Prompt Engineering, Deepseek

Others Technologies: Redux, HTML, CSS, SCSS, Canvas, AJAX, Object-Oriented Programming, Mongoose, Express.js, AWS S3, AWS Lambda, AWS Glue, Webpack, Git, Heroku, jFrog, Firebase, AWS ECS, AWS EKS

CERTIFICATES

AWS Certified Cloud Practitioner

Jan 2023

EXPERIENCE

JPMorgan and Chase Co.

New York City

Associate Software Engineer (Software Engineer II)

Feb 2024 - Present

Analyst Software Engineer (Software Engineer I)

Oct 2022 - Feb 2024

- Led the implementation of a Business Intelligence Monitoring platform for stakeholders using **Java, Spring Boot, and AWS services**. Leveraging public cloud best practices to build scalable, portable, and cost-efficient solutions with **Docker, AWS Lambdas** and **EKS (Elastic Kubernetes Service)** reducing **infrastructure costs by 26% equating to tens of thousands in monthly savings**.
- Developed and maintained comprehensive test suites, achieving near full test coverage for crucial components with **JUnit, Jest, and Cypress** automation, ensuring high-quality software delivery.
- Migrated multiple artifacts from on-premises servers to public cloud infrastructure using **Terraform, Jenkins, Dockers** while optimizing **CI/CD pipelines** to accelerate deployment speeds by **60%**, reducing from hours to minutes.
- Created **Grafana** and **Prometheus** dashboards that enables global internal team access to visualized metrics and data workflows for multiple scenarios like fraud and payment case studies in wealth management strengthening client service teams operational support, monitoring, and alerting.
- Constructed and automated Securities and Classification **ETL pipelines** using **AWS SQS, Kubernetes, Kafka and S3, receiving** and extracting **> 1TB** worth of data in order to deliver critical feeds to AI agents, analysts and customers utilize for their decision-making processes, enabling real-time insights and improving data accessibility.

App Academy | Software Engineer & Technical Coach | NYC

Sep 2021 - Oct 2022

- Reviewed, debugged, and provided feedback on individual and group student projects, ensuring high code quality, maintainability, and user experience aligned with industry standards.
- Conducted mock interviews, evaluating students' proficiency in data structures, system design, and communication skills to enhance their technical and professional readiness.

Railcare Health | Software Engineer Intern | North Carolina

Mar 2021 - June 2021

- Designed and prototyped the initial user interface templates in collaboration with UI designers using **Figma**, ensuring a seamless and user-friendly experience.
- Debugged and implemented automated tests to enhance website stability, maintainability, and **SEO performance** in future builds.
- Worked closely with a remote team of developers, following **Agile** methodologies to streamline development and optimize project execution.

EDUCATION

[University of North Carolina at Chapel Hill](https://www.universityofnc.edu/)

Chapel Hill, NC

Bachelor of Science in Biology | Chemistry + Chinese Minor |