

RAY QIN

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SUMMARY

- Senior Software Engineer with approximately 3 years of experience in full-stack development, embedding-based recommendation systems, and scaling AI tool adoption across organizations. Proven leader in driving productivity gains through AI workflows, mentoring cross-functional teams, and delivering high-impact features that boost user engagement and business metrics. Host of ZipRecruiter's weekly AI Research Interest Meeting.

WORK EXPERIENCE

ZipRecruiter

Apr. 2023 – Present

Santa Monica, CA

Senior Software Engineer

- AI Labs Working Group:** Member of company-wide AI Labs Working Group; hosted ZipRecruiter's first Cursor workshop, established AI usage guidelines, and integrated data from Jira, Slack, Notion, and GitHub using MCP servers. Mentored engineers across teams and hosted weekly AI Research Interest Meetings, driving widespread adoption of AI-assisted development and significantly improving engineering velocity.
- Full Stack Development:** Led end-to-end revamp of jobseeker registration, authentication, and onboarding flows, directing teams of 5–10 engineers. Consolidated duplicated components, integrated Golang microservices and OTP login, resulting in double-digit percentage increases in site-wide login rates and over 10,000 weekly SMS consents. Delivered 40% faster homepage load times using Next.js, Tailwind, and Golang.
- Recommendation Systems:** Built vector embedding-based recommendation engines powering key products for job seekers ("Suggested Jobs") and employers ("More Candidates Like This"). Engineered pre- and post-filtering pipelines, graph traversal strategies, and hybrid retrieval approaches; leveraged vector databases for low-latency similarity search, directly contributing to improved matching relevance and user engagement metrics.
- API Design:** Designed and implemented scalable internal and external APIs using JSON/REST web handlers, gRPC services, and the Connect protocol. Leveraged Protobuf and protojson wiring to ensure type safety, simplify serialization, and improve cross-service communication. Delivered 2024 company-wide talk on modern API design best practices and migration strategies.
- Web Security:** Architected security-critical features including v5 auto-login tokens and OTP-based authentication system, applying cryptographic best practices to support diverse product requirements. Presented 2025 company talk on cybersecurity threats and engineering defenses.

Eightfold

Jun. 2022 – Oct. 2022

Santa Clara, CA

Software Engineer, intern

- Data Warehouse and ETL Pipelines:** Led projects to enhance ETL pipelines and monitoring infrastructure, including authoring an atomic data loading process that reduced data inconsistency to under 2% and extending consistency trackers to company-level granularity across 56 tables in RDS, Redshift, and Firehose.

EDUCATION

University of California, San Diego, San Diego, CA

Sep. 2019 – Mar. 2023

- B.S. Mathematics - Computer Science,** B.S. Mechanical Engineering, Cum Laude, GPA: 3.9 / 4.0

FEATURED PROJECTS

- SQLightning:** Developed a relational database command line terminal with core SQL functionalities in C++.
- Autonomous Vehicle:** Built and programmed a 1/8 scale autonomous car that performs on tracks.
- Data Storm:** Built a cloud drive and analytics dashboard with React, Firebase, HTML, CSS, and TypeScript.

TECHNICAL SKILLS

- Languages:** Golang, Python, Java, C/C++, HTML, CSS, JavaScript, TypeScript, SQL, Rust, Bash
- Tech Stack:** AWS, GCP, Azure, Cursor, Claude Code, Antigravity, LLM, MCP, Docker, Kubernetes, React, Terraform, gRPC, Protobuf, Nginx, S3, Next, Node, Spark, Airflow, Kafka, Prometheus, Grafana, PostgreSQL, MySQL, Athena, Redshift, DynamoDB, SQS Queue, MongoDB, Redis, Flask, Git, Linkerd, Mixpanel, Service Mesh
- Core Skills:** AI Driven Development, Full Stack Development, System Design, Data Systems, Web Security