

Dongzhou(Roger) Li

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EXPERIENCE

Stealth Startup | Backend/Platform Developer

New York, US | Jan 2025 – May 2025

- Led backend development on **Firebase** and **Google Cloud Platform (GCP)**, transforming the CEO's vision into a functional MVP through iterative design with stakeholders
- Built **CI/CD** pipelines using **Cloud Build**, **GitHub Actions**, and deployed secure services via **Cloud Run**, **Secret Manager**, and **IAM**
- Managed a team of 3 engineers, devising Epics and User stories, distributing tasks, providing technical guidance

Network Tree | Software Engineer Intern

New York, US | Aug 2024 – Dec 2024

- Built and launched a professional networks app from scratch, achieving **4.5+** stars on the App Store
- Engineered frontend with **Redux** and **React Navigation**, improving navigation consistency and reducing crash rate by **20%**
- Shipped **50+ RESTful APIs** with **Node.js** and **MongoDB** to handle live traffic for contact management and user interactions; containerized using **Docker**
- Automated **CI/CD** pipelines using **Jenkins** on **AWS ECS**, slashing deployment time by **40%** and improved system observability by integrating **Datadog** to reduce mean time to resolution (**MTTR**) by **30%**
- Integrated third-party services (**Auth0**, **AWS Secret Manager**, **Amazon SNS**, **Stripe**) ensuring PCI compliance and zero security incidents

Smart H.S.E Tech | Software Engineer Intern

Changsha, CN | May 2024 - Jul 2024

- Led backend development of an internal query and visualization portal used by cross-functional environmental teams, supporting 1,000+ daily active users (DAUs) with SSO and real-time interaction
- Redesigned a sync query engine into an async distributed pipeline (**gRPC**, **Redis distributed locks**, and **PostgreSQL**), handling 100+ concurrent tasks with <500ms API latency using **Spring Boot** and **Hibernate**
- Enabled fault-tolerant execution via time-to-live (**TTL**)-based failover and horizontal scaling across distributed worker nodes
- Built an observability stack with **Prometheus** and **Grafana** for task states and latency monitoring; increased test coverage from 65% to 75% with **JUnit** and **Mockito**

PROJECTS

String Swift | Racket Stringing Ordering Platform | React, Python

Sep 2024 - Dec 2024

- Architected a **microservices** backend using **AWS (EC2, Lambda, API Gateway, Step Functions, CloudWatch)** and **Heroku**, reducing order processing time by 35%
- Delivered real-time order tracking UI and built **FastAPI + Docker** services for authentication and booking
- Implemented **CQRS** with **GraphQL** for read optimization, and **MySQL** for transactional writes
- Secured orchestration via a **Composite service** with **JWT-based access control** across **FastAPI** modules

CoverCraft Ai | Cover Letter Generator Application | React, Node.js

Jan 2024 - May 2024

- Built an **OpenAI Assistant API**-powered solution generating tailored cover letters in <3 minutes, delivering structured JSON output with real-time **WebSocket** streaming
- Logged user requests, model responses, and token usage into **Supabase** with **UUID tracing**, enabling A/B testing, performance debugging, and data-driven prompt optimization
- Enabled **retrieval-augmented generation (RAG)** using **LangChain** and **pgvector**, with **Unstructured** for PDF parsing and **Redis caching** to reduce cost and support streaming generation

EDUCATION

Columbia University – Master of Computer Science | GPA: 4.0/4.0

New York, US | May 2023 - Dec 2025

- Courses: Cloud Computing, Mobile App Development, Database Systems, UI Design, Data Structure and Algorithms, Advanced Programming, Design for Gen AI, NLP

New York University – Master of Arts in Politics | GPA: 3.8/4.0

New York, US | Sep 2021 - May 2023

City University of Hong Kong – Bachelor of Social Sciences | GPA: 3.7/4.0

Hong Kong, HK | Sep 2015 - Dec 2019

SKILLS

- Languages:** Python, Java, C#, C/C++, SQL, JavaScript (ES6+), TypeScript, Swift, HTML5, CSS3
- Frameworks & Tool:** Express.js, Node.js, React.js, Vue3.js, Angular.js, Spring Boot, Flask, Tailwind CSS, gRPC, MongoDB, MySQL, PostgreSQL, GraphQL, Redis, Docker, AWS, Jenkins, Tableau, Git, Kubernetes, Spinnaker, Google Cloud, DevOps