

Roger Li

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EDUCATION

Columbia University – *Master of Computer Science* | GPA: 4.0/4.0 New York, US | May 2023 - May 2025

- Courses: Cloud Computing, Mobile Dev, Database, UI Design, Adv Programming, Gen AI, NLP, DSA

New York University | GPA: 3.8/4.0 New York, US | Sep 2021 - May 2023

City University of Hong Kong | GPA: 3.7/4.0 Hong Kong, HK | Sep 2015 - Dec 2019

EXPERIENCE

Miora (Brooklyn InnoSeq Inc) | *AI-driven Full-stack Engineering Intern* New York, US | Jun 2025 – Present

- Led migration from static HTML to a HIPAA-compliant **React/Next.js** platform, improving performance and cross-device responsiveness
- Built a serverless backend with **AWS (Lambda, Amplify, and Cognito)**, enabling secure workflows and scalable diagnostic API pipelines
- Integrated OpenAI LLM APIs for personalized patient summaries and real-time AI-driven diagnostics
- Shipped production-ready UI components from Figma wireframes in collaboration with cross-functional teams

Stealth Startup | *Backend/Platform Developer* New York, US | Jan 2025 – May 2025

- Led backend development using **Firebase**, transforming product vision into a functional MVP through stakeholder iteration
- Built **GCP-based CI/CD** pipelines and deployed secure microservices via **Cloud Run**, IAM, and **Secret Manager**
- Managed a team of 3 engineers, with task planning, technical guidance, and system architecture definition

Network Tree | *Software Engineer Intern* New York, US | Aug 2024 – Dec 2024

- Built a **React Native + Node.js** networking app from scratch (4.5★ App Store), integrated **50+ RESTful APIs** with **MongoDB**
- Containerized backend with **Docker**, deployed via **Jenkins** on **AWS ECS** with **Datadog** monitoring, cutting deployment time by 40% and **MTTR** by 30%
- Improved navigation and reduced crash rate 20% via **Redux/React** Navigation refactors
- Integrated **Auth0**, **SNS** and **Stripe** for auth, payments, and notifications, **ensuring** PCI compliance and secure data handling

Smart H.S.E Tech | *Software Engineer Intern* Changsha, CN | May 2024 - Jul 2024

- Designed an async distributed pipeline with **gRPC**, **Redis locks**, and **PostgreSQL**, for 100+ concurrent queries under 500ms
- Scaled distributed workers with **TTL-based failover**; built Prometheus/Grafana dashboard and increased test coverage from **65%** to **75%** (**JUnit**, **Mockito**)
- Delivered secure internal portal (1,000+ DAUs) with SSO, role-based access, and **Spring Boot** backend

PROJECTS

String Swift | *Racket Stringing Ordering Platform* | *React, Python* Sep 2024 - Dec 2024

- Architected a **microservices** backend on **AWS (Lambda, API Gateway, Step Functions, EC2)** and **Heroku**, reducing order processing latency by 35%
- Built real-time order tracking UI and containerized **FastAPI** services for auth and booking
- Implemented **CQRS** using **GraphQL** and **MySQL**, and secure orchestration via **JWT**-based access control across modular FastAPI services

CoverCraft Ai | *Cover Letter Generator Application* | *React, Node.js* Jan 2024 - May 2024

- Built an **OpenAI Assistant API**-powered generator producing tailored cover letters in under 3 minutes via real-time **WebSocket** streaming with structured **JSON** output
- Logged user inputs, model responses, and token usage in **Supabase** with **UUID tracing** to enable A/B testing, performance debugging, and prompt optimization
- Enabled retrieval-augmented generation (**RAG**) with **LangChain** and **pgvector**, integrating **Unstructured** for PDF parsing and **Redis** for streaming

SKILLS

- **Languages:** Python, Java, C#, C/C++, TypeScript, JavaScript, SQL, Swift, HTML/CSS
- **Tools & Frameworks:** React, Next.js, Node.js, Vue3.js, Angular.js, Spring Boot, Flask, gRPC, GraphQL, Docker, AWS (Lambda, Amplify, Cognito, ECS), Firebase, Jenkins, MongoDB, PostgreSQL, Redis, Tableau, Git, Kubernetes, Spinnaker, DevOps