Yangyang Li

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Senior Full Stack Developer

Results-driven Senior Full Stack Developer with 8+ years of experience building and optimizing consumer-facing applications. Specializes in scalable architecture, high-traffic system management, authentication security (MFA, SSO), and cloud infrastructure (AWS, Vercel, Supabase).

WORK EXPERIENCE

Penguin Benefits
Senior Full Stack Developer • Full-time

01/2024 - Present
Ottawa, ON, Canada

- Architected and developed a parental leave management SaaS platform comprising an employee-facing planning tool for drafting leave plans and estimating benefits, and a leave manager portal for configuring and managing parental leave policies.
- Secured contracts with New York Life, Prudential, and Voya, integrating the platform into their benefits offerings. By 2025, the platform will support 100 employers and serve 100,000 employees through these partnerships.
- Orchestrated the migration from Google Firebase to AWS Cognito, implementing MFA and SSO to enhance authentication security. Redesigned sign-in, sign-up, and password reset workflows, reducing authentication friction and cutting login-related support tickets by 20%.
- Optimized AWS infrastructure and system architecture to achieve SOC 2 Type 2 compliance, successfully passing the 2025 audit. Enabled secure PII data collection, expanding product capabilities.
- Identified and resolved performance bottlenecks using JMeter stress testing, reducing response time by 35% and improving SLA from 99.5% to 99.9%. Results were validated through BlazeMeter, a cloud-based JMeter testing platform.
- Developed a Cypress-based automated and visual regression testing framework from scratch, achieving 70% reduction in manual testing time and accelerating release cycles.

Full Truck Alliance
Senior Software Developer • Full-time

10/2020 - 07/2023
Nanjing, China

- Revolutionized logistics transactions by developing and enhancing the YMM app's checkout system, integrating deposit guarantees, insurance, commission processing, and coupon management. Scaled daily order volume to 500,000, a pivotal milestone in the platform's growth.
- Led a system-wide architectural overhaul transitioning to a modular architecture. Increased development efficiency by 30%, standardized core functionalities for reuse, and introduced specialized logistics services (e.g., short-distance and cold chain logistics), improving scalability.
- Managed system reliability for the Deal Module in 2021, implementing service dependency management, degradation controls, and SQL optimizations to achieve zero online failures and zero capital losses. In 2022, expanded reliability governance by leading a five-person team to optimize system topology, disaster recovery for payment callbacks, and Redis key management, reducing total system downtime to under 20 minutes for the year.

Ximalaya Network Technology
Senior Software Developer • Full-time

02/2019 - 10/2020
Shanghai, China

- Boosted engagement and monetization by developing key features for the Himalaya App's Album Details Page, including "Ad-Watch for Free Listening" and "Limited-Time Freebies", driving 32.83 million paying users and generating billions of plays during the Audiobook Festival.
- Engineered the Album Central Service, supporting commercialization, online education, and live broadcasts. Maintained a catalog of 80+ million albums, handling 100,000+ API requests per second with a P99.99 response time of 150ms.

PROJECTS

Hackarena – Capture the Flag (CTF) Platform   09/2024 - 11/2025

Designed and developed a Capture the Flag (CTF) platform for Algonquin College Kali Club, enabling members to practice ethical hacking skills and compete in cybersecurity challenges. Implemented leaderboards, challenge categories, and a user-friendly interface for flag submission and progress tracking. Contributed to the team's 2nd place finish in the CyberSci Regional Challenge (Ottawa). Built with Next.js, React.js, PostgreSQL, and hosted on Vercel. (https://hackarena.vercel.app/)

JobJourney – Job Application Management Platform   10/2024 - 12/2025

Designed and developed a full-stack job application tracking system, enabling users to sign in via multiple platforms or verification codes, seamlessly manage applications, and track statuses in real time. Implemented secure authentication, dynamic job status updates, and an intuitive sign-out process for an optimized user experience. Built with Next.js, React.js, MongoDB, Prisma, Tailwind CSS, and hosted on Vercel. (https://applyally.vercel.app/)

SKILLS

Backend: Java, Spring Boot, Spring Cloud, Node.js, PostgreSQL, Redis, ZooKeeper, RabbitMQ

Frontend: HTML, CSS, JavaScript, Next.js, React, Material UI, Redux

Testing: Cypress, Postman, Apache JMeter, Zed Attack Proxy (ZAP), Junit

DevOps & Infrastructure: Docker, Kubernetes, AWS, GCP, Azure, Cloudflare

Security & Compliance: SOC 2, CMDB, AWS WAF, AWS GuardDuty

Soft Skills: Agile Project Management, Cross-Functional Collaboration, Multitasking, Team Mentoring

EDUCATION

Diploma in Computer Programming
Algonquin College • GPA: 3.7/4.0   Ottawa, ON • 09/2023 - 12/2024
Bachelor in Engineering
Huazhong University of Science and Technology   Wuhan, China • 09/2012 - 06/2016