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, specializing in scalable architecture, high-traffic system management and cloud infrastructure.

WORK EXPERIENCE

Penguin Benefits • Ottawa, ON, Canada • 01/2024 - Present
Senior Full Stack Developer • Full-time

- 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.
- Identified and resolved performance bottlenecks using JMeter stress testing, reducing latency by 35% and improving SLA from 99.5% to 99.9%. Results were validated through BlazeMeter, a cloud-based JMeter testing platform.
- Led 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%.
- Developed a Cypress-based automated and visual regression testing framework from scratch, achieving 70% reduction in manual testing time and accelerating release cycles.
- 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.

Full Truck Alliance • Nanjing, China • 10/2020 - 07/2023
Senior Software Developer • Full-time

- Transformed 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.

SKILLS

- **Backend:** Java, Spring Boot, Spring Cloud, PostgreSQL, MongoDB, gRPC, Apache Thrift, GraphQL, RESTful API, ZooKeeper, RabbitMQ, Kafka

- **Frontend:** Typescript, React, Material UI, Redux, Zustand, HTML5, CSS, SPA (Single-page application), Progressive Web Apps (PWA)

- **Testing & Monitoring:** Automation Testing, Performance Testing, Cypress, Postman, Apache JMeter, Junit, Datadog, AWS CloudWatch

- **DevOps & Infrastructure:** Docker, Kubernetes, AWS, IaaS, Terraform, CI/CD

- **System Design & Architecture:** Microservices, CQRS, Remote procedure call (RPC), Domain-Driven Design (DDD), Object-Oriented Design (OOD)

- Led system reliability for the checkout system in 2021, implementing service dependency management, degradation controls, and SQL optimizations, resulting in zero online failures and no capital losses.
- Led reliability governance for the entire Transaction Platform in 2022. Managed a five-person team to optimize system topology, enhance disaster recovery, and refine Redis key management, cutting system downtime to under 20 minutes annually.

Ximalaya Network Technology · Shanghai, China · 02/2019 - 10/2020

Senior Software Developer · Full-time

- 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.

Gechen Information Technology (BMTrip) · Shanghai, China · 10/2017 - 01/2019

Intermediate Software Developer

- Developed and integrated Ctrip and third-party hotel APIs into internal systems, enabling real-time price queries, bookings, and order management. Launched a hotel booking platform with 10,000+ hotels, generating ¥300,000+ in transactions and booking 300+ room-nights in the first month.
- Engineered a flight ticketing system by integrating Difeng Holiday's API, supporting flight searches, fare and availability checks, and flexible bookings, enhancing the company's travel service offerings.

Beijing Rongyitong Jiehang Information Technology (Jetair) · Shanghai, China · 03/2017 - 10/2017

Junior Java Developer · Full-time

- Developed China Eastern Airlines' ticket management system (IDOC), achieving a ticket issuance accuracy of over 99.9%, an average response time of 300ms, and supporting a daily query volume of 20,000

- **Security & Compliance:** SOC 2, Zed Attack Proxy (ZAP), AWS WAF, AWS GuardDuty, AWS CloudTrail

- **Project Management:** SDLC (Software Development Lifecycle), Agile Management, Sprint Planning & Backlog Grooming

- **Soft Skills:** Self-motivated, Communications, Cross-Functional Collaboration, Technical Documentation, Team Mentoring

EDUCATION

Diploma in Computer Programming

Algonquin College
Ottawa, ON
GPA: 3.7/4.0
09/2023 - 12/2024

Bachelor in Engineering

Huazhong University of Science and Technology
Wuhan, China
09/2012 - 06/2016