Chunxia (Ella) Li

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SUMMARY

Software Engineer with 8+ years of experience designing and implementing scalable enterprise systems and microservices architectures. Recent Master's degree in Applied Computer Science with perfect GPA, combining cutting-edge technical knowledge with extensive hands-on experience in both fast-paced startups and enterprise environments.

WORK EXPERIENCE

Freelance Software Engineer — *Jun 2024 – Present*

- Independently designed and built full stack [Project Management System](#) (Trello like) using **Next.js, Express.js** and **AWS RDS-PostgreSQL**, leveraging **HTML**, **Tailwind**, **TypeScript** and **Prisma**, deployed on **AWS Amplify** and **EC2**, integrating **AWS Cognito** for user authentication and **AWS Lambda** for adding new users to database after confirmation, utilizing **AWS S3** for images storage and **AWS CloudWatch** for monitoring.

Software Development Engineer | BOE Technology Group (World Top 3 Panel Manufacturer) — *Mar 2022 – Sep 2023*

- Led **Agile** team to refactor monolithic OEM management system into 3 **microservices** (user center, inventory query, and inventory computation services) using **Spring Boot**, **MySQL (PostgreSQL-like)** and **Redis**, deployed on **Docker** managed by **K8s**, implementing **Kafka** for asynchronous inventory updates, reducing average response time from 5 seconds to 800ms while supporting 3x concurrent user load
- Designed scalable Renovation & Expansion Project Management System from scratch using **Spring Boot**, **MySQL, Redis** for caching, integrating with multiple enterprise systems (ERP, BCM, PDM, SRM), serving 150+ MLED manufacturing facilities with comprehensive project lifecycle, improving operational efficiency by 60%
- Mentored 3 junior developers, enabled them to independently contribute to production-level code within 6 months.

Senior Software Development Engineer | Shihui Technology (Tech Startup) — *May 2021 – Dec 2021*

- Designed distributed driver tracking service handling 50K+ active drivers based on **Spring Cloud** and **Alibaba Cloud (AWS-like)**, leveraging **Kafka** for decoupled ingestion, **Redis GEO** for low-latency proximity queries, and **MongoDB** for storing time-stamped GPS trajectories, **SkyWalking (DataDog-like)** for APM, processing over 140 million location records per day with horizontal scalability

Software Development Engineer | Xinyingjie Technology — *Apr 2019 – Mar 2021*

- Delivered Archives Management System from scratch using **Spring Boot** and **MongoDB**, leveraging **RabbitMQ** for text extraction from attachments using OCR, video processing, and notification sending, while integrating **Elasticsearch** and IK Chinese analyzer for full-text search, reducing search response time from 10 seconds to 800ms. Deployed in 100+ universities, enabling the digital archives management.

Software Engineer | Yunzhi Internet Technology (Internet Cafe Platform Startup) — *Mar 2017 – Apr 2019*

- Built **RESTful APIs** for e-commerce platform Zhuanba Mall using **Spring Boot** and **MySQL**, generated **Swagger** API doc, implementing **Redis** caching for frequently accessed data, improving response time by 40%
- Developed internet cafe management system using **React, Express** and **MySQL**, implementing **JWT** authentication and role-based access control supporting 500+ daily active users with 99.9% uptime

Software Test Engineer | Shunwang Technology (China Top 1 Internet Cafe Platform) — *Apr 2015 – Mar 2017*

- Automated Web UI testing for the Franchise Management Platform using **Python**, improving test efficiency by 80%

EDUCATION

Fairleigh Dickinson University	**Vancouver, BC**
*Master of Science in Applied Computer Science; GPA:**4.0/4.0***	*09/2023 – 12/2024*
Beijing University of Posts and Telecommunications	**Beijing, China**
Master of Mechanical and Electronic Engineering	*09/2012 – 03/2015*
Bachelor of Mechanical Engineering and Automation	*09/2008 – 06/2012*

SKILLS

Languages*:* Java, JavaScript, TypeScript, HTML, CSS, Python, C#, C

Frameworks and Tools: Spring Boot, Spring Cloud, Node.js, Express.js, Next.js, React.js, .NET, Postman, Swagger, Jira, Junit, Jest, Elasticsearch, Logstash, Kibana, Prometheus, Grafana

Technologies: MySQL, MS SQL Server, PostgreSQL, Redis, MongoDB, AWS (**Certified AI Practitioner**), GCP, Docker, Kubernetes/K8s, Jenkins, Git/GitHub