

Zhiming Lin

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SUMMARY

- 4 years of working experience in software development and full-stack development in Java, JavaScript and TypeScript.
- Demonstrated experience with front-end framework and back-end framework such as React, Vue.js, Node.js and Spring Framework.
- Proficient and solid knowledge in data structure, algorithms, computer network, software engineering and machine learning.

WORKING EXPERIENCE

Amazon | Payment Services, Global Payments Tech | Vancouver, Canada

Oct. 2024 – Present

Software Development Engineer II

- Designed and implemented a zero-downtime migration for payment offloading workflow handling 35MM daily worldwide traffic, addressing major security risks and a three-year broken pipeline, moving to Amazon internal CDK managed pipeline for infrastructure and applications using DynamoDB Stream, Lambda, SQS, S3 and ECS in Java and TypeScript.

Amazon | Payment Services, Global Payments Tech | Vancouver, Canada

Mar. 2022 – Sept. 2024

Software Development Engineer I

- Implemented Canary testing and integration testing for Tier-1 payment service with serverless test framework using AWS Lambda in Java and CDK infra pipeline in TypeScript, the implementation has 30% lower KTLO and 50% higher coverage than existing test framework.
- Owner of US HBA and EBT retail checkout migration, fixed 10 US HBA and EBT migration mapping gaps across 4 Tier-1 payment services.
- Owner of FE retail checkout migration across 3 marketplaces (JP, AU and SG marketplace) and 7 payment methods (single and multi-tender payment method use cases) with 50M traffic daily, completed 29 gaps triage and 18 gaps fix, pre-mortem readiness analysis, validation analysis.
- Delivered lean storage design for live and historical payment execution data without degradation on GDPR retention, PAPG localization compliance-based workflows and zero latency impact on 99.99% traffic, this estimated to reduce 90% storage cost with 243K YoY saving.
- Decoupled foreign exchange logics from legacy monolith service to standalone decorator, implemented parallel decorators for foreign exchange and financial offer with the metric-log based shadow tool, which delivered a combined of 5ms TM99 latency reduction to adhere S-team goal.
- Demonstrated the ability to drive the alignments among different teams, mitigated customer impacts as the on-call for Tier-1 payment services.

Cya Live | Toronto, Canada

Dec. 2020 – Feb. 2022

Full Stack Developer

- Implemented backend supports for real time notifications and live event notifier with AWS SQS, AWS Lambda, Redis Pub/sub and WebSocket.
- Implemented video chat up to 9 people with mute function using WebRTC P2P, integrated it into existing system and saved the cost by 20%.
- Developed frontend components for Friend Panel (invitation, messaging, etc.) and Notification (event, chat, etc.) using JavaScript and Vue.js.

EduShare | Toronto, Canada

Sept. 2020 – Dec. 2020

Full Stack Developer Intern

- Created component-based webpages such as landing page, about-us page using React based on UI design.
- Configured and deployed sites onto edushare.ca using Netlify and maintained site git repository.
- Integrated email marketing with webpages to enable email subscription using HubSpot and ActiveCampaign.

PROJECTS EXPERIENCE

[React/Redux Bubble Tea Website](#), Waterloo, Canada

May 2020

- Introduced responsive web application using React/Redux where users can view, customize and shop different types of tea.
- Designed and created interaction in login page and shopping page to improve user experience using CSS3.
- Built simple Python logging system using RabbitMQ and improved login experience using session and cookie with UUID.
- Structured the web application with Node.js as web server to handle user requests, Spring Boot as application server to connect MongoDB.
- Bundled with Webpack and Dockerized using Docker Compose.

EDUCATION

University of Waterloo, Canada

Sept. 2019 – Dec. 2020

Meng in Electrical and Computer Engineering

GPA: 89.50 /100

Courses: Algorithm Design and Analysis, Methods and Tools for SE, Foundations of SE, Database Systems

Macao Polytechnic University, Macau

Aug. 2015 – Jun. 2019

Bachelor of Science in Computing

GPA: 3.63/4.0

Courses: Data Structure and Algorithms, Computer Networks, Operating System, Computer Security

SKILLS & AWARDS

- Programming Languages: Java (4+ years), JavaScript (4+ years), Python (3+ years), SQL (3+ years), C++ (0.5 year)
- Full stack: React, Node.js, Vue.js, JavaScript, RESTful APIs, Spring Boot, MongoDB, DynamoDB, MySQL, Firebase, Redis, AWS
- Others: Git, Linux/Unix, Bash, Docker, Webpack, Android, RabbitMQ, Flask, WebSocket, webRTC