

Mercedes Lo

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Full Stack Engineer with 6 Years in Fast-Paced Startups | Canadian Citizen

EXPERIENCE

Senior Software Engineer

Jan 2021 – March 2023

Poloniex

Boston, MA

- Built a staking rewards tracking system to monitor user funds across external validators, ensuring accurate accounting and timely reward distribution
- Developed and maintained RESTful microservices for automated fund sweeping between internal wallets, improving transaction reliability and operational efficiency
- Managed blockchain infrastructure, including maintaining chain nodes, Docker images, and monitoring systems to support on-chain operations and uptime SLAs
- Engineered an approval and airdrop automation tool using Jira API and Amazon Web Services Lambda, enabling batch token distribution workflows with audit trails and access controls
- Designed and implemented a PHP-based batch job system to process 10,000+ operations via CSV automation, reducing manual effort and execution time
- Developed an internal UI tool for executing read-only database queries with role-based access controls and query safety validations.
- Implemented a privilege management system in TypeScript, integrated with OneLogin SSO, to enforce least-privilege access policies across internal tools

Software Engineer

Oct. 2019 – Jan 2021

Circle

Boston, MA

- Extended in-house blockchain infrastructure to support large-scale tokenization initiatives, enabling new digital asset products and on-chain integrations
- Developed automated reporting tools and data pipelines to support marketing operations, improving visibility and analytics for campaign performance
- Built real-time alerting systems using the Slack API and AWS SNS, SQS to notify market makers of currency and market condition changes, reducing response latency in trading environments
- Created AWS CloudFormation templates for consistent deployment of EC2-based microservices, reducing manual setup time and infrastructure drift

PROJECTS

Reviser - AI-powered Leetcode Revision Scheduler | *Typescript, React, PostgreSQL, Gemini, GCP* 2024

- Designed and deployed a Chrome Extension with a TypeScript backend to generate personalized spaced-repetition schedules for Leetcode problems
- Built backend services on Google Cloud Run with persistent storage in MongoDB Atlas and caching in Redis for fast access to question stats
- Implemented logic to filter and prioritize questions based on revision frequency, recency, and suspension periods
- Integrated email notifications and scheduling logic to automatically remind users of upcoming revisions

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Mathematics in Statistics, Minor in Computer Science

TECHNICAL SKILLS

Languages: Typescript, JavaScript, Python, Java, SQL (Postgres, MySQL), HTML/CSS

Frameworks: React, Node.js, Vite, Webpack, Material-UI, Cassandra, Redis, DynamoDB, ElasticSearch

Developer Tools: Cursor, Git, Docker, Amazon Web Services, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse

Libraries: Neo4j