

Mercedes Lo

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

EXPERIENCE

Senior Software Engineer <i>Poloniex</i>	Jan 2021 – March 2023 <i>Boston, MA</i>
<ul style="list-style-type: none">Built a staking rewards tracking system to monitor user funds across external validators, ensuring accurate accounting and timely reward distributionDeveloped and maintained RESTful microservices for automated fund sweeping between internal wallets, improving transaction reliability and operational efficiencyManaged blockchain infrastructure, including maintaining chain nodes, Docker images, and monitoring systems to support on-chain operations and uptime SLAsEngineered an approval and airdrop automation tool using Jira API and Amazon Web Services Lambda, enabling batch token distribution workflows with audit trails and access controlsDesigned and implemented a PHP-based batch job system to process 10,000+ operations via CSV automation, reducing manual effort and execution timeDeveloped 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 <i>Circle</i>	Oct. 2019 – Jan 2021 <i>Boston, MA</i>
<ul style="list-style-type: none">Extended in-house blockchain infrastructure to support large-scale tokenization initiatives, enabling new digital asset products and on-chain integrationsDeveloped automated reporting tools and data pipelines to support marketing operations, improving visibility and analytics for campaign performanceBuilt 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 environmentsCreated AWS CloudFormation templates for consistent deployment of EC2-based microservices, reducing manual setup time and infrastructure drift	

PROJECTS

Reviser - AI-powered Leetcode Revision Scheduler <i>TypeScript, React, PostgreSQL, Gemini, GCP</i>	2024
<ul style="list-style-type: none">Designed and deployed a Chrome Extension with a TypeScript backend to generate personalized spaced-repetition schedules for Leetcode problemsBuilt backend services on Google Cloud Run with persistent storage in MongoDB Atlas and caching in Redis for fast access to question statsImplemented logic to filter and prioritize questions based on revision frequency, recency, and suspension periodsIntegrated email notifications and scheduling logic to automatically remind users of upcoming revisions	

EDUCATION

University of Waterloo <i>Bachelor of Mathematics in Statistics, Minor in Computer Science</i>	Waterloo, ON
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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