Michael J. Luo

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Professional Summary

Self-disciplined Software Engineer with a Bachelor's degree in Computer Science and four internships of experience at the

5th largest company in the world. Known for taking ownership of large projects and consistently finishing products before deadlines. Accomplishments include reducing operational costs by 92% and increasing the team's sprint velocity by 20%. Seeking to excel at a Software Engineer position with a unique blend of technical expertise and leadership to work on problems that make an impact.

Skills

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Technical Skills

Java, JavaScript, Python, Git, HTML/CSS, MongoDB, SQL, Rest API, React, NodeJS, Spring, C, Jenkins, Kafka, JUnit Tests, Linux, Bash

Work History

Software Engineer Intern (4 Internships) – Optum 06/2020 to 08/2023

* Utilized Spring Boot, Kafka, JUnit, MongoDB, and Kubernetes to efficiently finish product requirements working independently.
* Delivered code from local to production by holding code reviews with engineers and implementing back-end features.
* Increased team sprint velocity by 20% by automating Junit Tests for GitHub commits and creation of Docker Containers.
* Implemented a real-time data tracking platform, connecting microservices and distributed database systems to REST API.
* Led overhaul of analysis website, utilizing React to display statistics/organizational graphs containing 300K employees.
* Outfitted Jenkins CI/CD pipeline to test GitHub code, build Docker app containers, and deploy Kubernetes servers.
* Allowed frontend apps to communicate using React Redux and backend applications to trigger data events with Kafka.
* Built a distributed systems backend architecture with Kafka and Spring for scalability, reliability, and externalized configuration
* Successfully created data verification pipeline spanning 4 backend apps using Java Spring Boot and Postgres SQL Database.
* Reduced costs from paper IDs by over 92% by creatin object-oriented services to generate customer IDs in digital wallets.
* Designed knowledge-based intelligent chatbot with natural language processing and machine learning knowledge base.
* Led full-stack projects focused on scaling applications to manage high user loads, ensuring stability and responsiveness.
* Directed interns in 10-week Shark Tank, coordinating design and tech demos through leadership and team management.

Programming Instructor – STEM From Dance 04/2022 to 04/2023

* Garnered a 30% increase in student signups for nonprofit program by leading outreach at events as company ambassador.
* Instructed a middle-school class of 20, planned class projects where students used code to create music/film dance videos.
* Nurtured a passion for technology and promoted diversity in the tech industry by utilizing programming skills to teach.
* Developed rapport with students and established a fun learning environment to increase student knowledge retention.
* Empowered underrepresented Black and Hispanic girls by teaching them how to successfully utilize Python skills.

Co-Founder – FLOW 12/2019 to 12/2021

* Interviewed independent secondhand sellers/owners to gather feedback and conduct research on consignment market.
* Developed ecommerce prototype that strategically connected sellers of secondhand clothing to consignment shops.
* Eliminated pain points through integration of storefronts into flagship platforms and created centralized credit systems.
* Strategically promoted mom-and-pop stores struggling during COVID by developing an innovative ecommerce prototype.

Projects

**Cryptocurrency Chart Website** 04/2022

* Developed Crypto charts, a full-stack price chart website using Express and React with Handlebars, connecting to price tracking APIs to allow users to access cryptocurrency price histories and customizable price charts with a clean UI.
* Implemented user authentication with Passport, allowing users to register, log-in, and manage saved charts with the ability to organize customized charts utilizing MongoDB Mongoose data models, streamlining user experience for price tracking.

Education

**New York University, College of Arts & Science** – **Bachelor of Arts,** Computer Science & Psychology, GPA: 3.82 – 12/2023