Michael J. Luo

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Professional Summary

Self-disciplined [Role] with a Bachelor's degree in Computer Science and 4 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 building an end-to-end data pipeline for over 1.2 million healthcare providers, reducing operational costs by 92% and increasing the team's sprint velocity by 20%. Seeking to excel at a [Role] position with a unique blend of technical expertise and leadership to work on problems that make an impact.

Skills

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| * [Keyword1] * [Keyword2] * [Keyword3] * [Keyword4] * [Keyword5] * [Keyword6] * [Keyword7] | * [Keyword8] * [Keyword9] * [Keyword10] * [Keyword11] * [Keyword12] * [Keyword13] * [Keyword14] |

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