

# MICHAEL J. LUO

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## Professional Summary

Self-sufficient Full Stack with a Bachelor's degree in Computer Science and four internships of experience at the largest healthcare provider in the world. Known for identifying problems, taking agency of large projects, and consistently finishing products before deadlines. Accomplishments include increasing the team's sprint velocity by 20% through proactive leadership and strong collaboration. Demonstrated an impressive ability to develop features for large-scale applications and distributed systems while also scaling them for deployment. Seeking to excel at a software engineering position, eager to apply a unique blend of technical expertise and leadership to work on problems that make an impact.

## Skills

- Funny
- BUNNY& Clyde
- Leadership & Team Management
- Web Development & Back-End Development
- Integrating Distributed Systems & Rest APIs
- Developing User-Facing Front-End Websites
- Scaling Applications & Managing High-User Loads
- Agile Project Management & Agile Frameworks
- Software Development & Issue Troubleshooting
- SQL Database Design & Query Formation
- Leading Developments from Concept to Completion
- Software Development Lifecycle (SDLC)
- Excellent Verbal & Written Communication
- Overhauling Front-End Applications

## Projects

Cryptocurrency Chart Website04/2022

- Developed Crypto charts, a full-stack price chart website using Express and React with Handlebars, offering easy access to 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 into lists, streamlining user experience for price tracking.
- Designed a MongoDB Mongoose data model to ensure consistent and reliable storage of data.

## Work History

Software Engineer Intern (4 Internships) – Optum06/2020 to 08/2023

- Utilized Spring Boot, Kafka, JUnit, MongoDB, and Kubernetes to efficiently complete project requirements.
- 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 PostgreSQL Database.
- Reduced costs from paper IDs by over 92% by creating a distributed system to generate customer ID cards in digital wallets.
- Designed knowledge-based intelligent chatbot with NLP learning capabilities using contextual decision trees/logic flow.
- Led full-stack projects focused on scaling applications to manage high user loads, ensuring stability and responsiveness.
- Directed intern project in 10-week Shark Tank program, coordinating design, objectives, and tech demos.

- Garnered 70 student signups for the summer program by leading outreach at tabling events as brand 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 technical education 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.
- Designed student data procedures to assess students' strengths or weakness and determine areas needing improvements.
- Conducted in-depth/necessary accommodations and modifications for growth/success of each student in the program.

- 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.
- Translated insights into product features and verified that custom-built solutions were sustainable/scalable for segments.
- Strategically promoted mom-and-pop stores struggling during COVID by developing an innovative ecommerce prototype.
- Improved business model by conducting customer research and validated business hypothesis by pitching to investors.

## Leadership Experience

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Leader – Prayer Ministry Club – NYU

## Technical Skills

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Java, JavaScript, Python, Git, HTML/CSS, MongoDB, SQL, Rest API, React, NodeJS, Spring, C, Jenkins, Kafka, Kubernetes, Linux OS

## Education

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**New York University, College of Arts & Science** – 12/2023

**Bachelor of Arts**, Computer Science & Psychology, GPA: 3.82