Michael J. Luo

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Education

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

Technical Experience

Software Engineer Intern – Optum 06/2023 to 08/2023

* Developed backend app to track changes in healthcare data for business users.
* Engineered non-blocking service design to handle exceptions without downtime.
* Wrote unit tests for app methods, mocking external data and streamlining development.
* Validated end-to-end functionality of application, delivering quality code to production.

Software Engineer Intern – Optum 06/2022 to 08/2022

* Assembled backend architecture to standardize ID card creation, lowering costs by 92%.
* Developed service to perform file processing tasks and relay file events to other apps.
* Leveraged CI/CD pipeline to test changes, build app containers, and deploy to servers.

Software Engineer Intern – Optum 06/2021 to 08/2021

* Overhauled front-end app with new analysis tools, statistical data, and better design.
* Improved user experience by garnering feedback from stakeholders and executives.

Software Engineer Intern – Optum 06/2020 to 08/2020

* Launched front-end web app to configure automation and deployment jobs on Jenkins.
* Structured login page and automation workflow around needs of different user groups.

Leadership

Course Grader – New York University 09/2023 to Present

* Evaluate student coursework by checking code quality and testing website functionality.
* Devise program to automate testing of custom scenarios, streamlining grading process.

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

* Taught programming fundamentals by planning an 8-week class project using Python.
* Led outreach at tabling events, garnering a 30% increase in signups for flagship program.

Co-Founder – FLOW (student startup) 12/2019 to 12/2021

* Built ecommerce prototype to connect small businesses with secondhand clothes sellers.

Skills

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| * Full-Stack Web Development * Microservices & RESTful APIs * Object Oriented Programming with Java * Front-end Development with HTML & CSS * Problem Solving & Issue Troubleshooting * Excellent Communication and Leadership | * Agile Sprints and Code Reviews * Driving Projects from Idea to Completion * Database Integration and Data ETL * Deployment with Kubernetes * Event Driven Architecture with Kafka * Data Structures & Efficient Design |

Technical Skills

Java, JavaScript, Python, React, NodeJS, Spring, HTML/CSS, Git, Kafka, MongoDB, SQL, Bash