

Aarush Sharma

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EDUCATION

North Carolina State University

Bachelors of Science: Computer Science

Raleigh, NC

Aug 2021 - May 2025

EXPERIENCE

Microsoft

Software Engineering Intern

May 2024 - Aug 2024

Atlanta, GA

- Developed and integrated a dynamic error generation and fault injection system for Azure's CRP Mock Service, improving testing accuracy by **28%** and reducing debugging time by **12** hours.
- Created customizable settings for HTTP and API Error patterns, enabling precise error response configurations based on specific conditions, and reducing feature regressions in the production phase.
- Enhanced testing coverage by adding HTTP callbacks in long-running VM operations and executing integration tests, ensuring robust error handling including retry counts and timeout enforcement.

Walmart Global Tech

Software Engineering Intern

May 2023 - Aug 2023

Bentonville, AR

- Developed a Scheduler service that validates requests for **4000+** Walmart stores
- Designed and implemented a CoreAPI service using **Spring Boot**, leveraging REST endpoints to efficiently process and retrieve data from an **Azure SQL database**, with a Guard service preventing overlaps in the request queue
- Developed a **Kafka** integration in Spring Boot, enabling seamless data streaming and processing
- Containerized the Scheduler using **Docker** and implemented **Kubernetes** for large-scale deployments

NetApp

Software Engineering Intern

Jan 2023 - May 2023

Research Triangle Park, NC

- Automated HR recruitment processes for **20,000+** applications using Java scripting.
- Programmed bots in Excel for automated accounting and data retrieval from Oracle ERP Cloud, streamlining finance operations.
- Developed a Java program to automate data retrieval from Oracle ERP Cloud infrastructure, for the Finance department

Fidelity

Software Engineering Intern

June 2022 - Aug 2022

Durham, NC

- Developed and deployed a file management system for an equity management API
- Deployed a file configuration system for a 3rd party event processor with **10k+ requests** daily using **Java, Apache, and NodeJS**
- Updated and completed end-of-life implementations for Fidelity Client Side Products

PROJECTS

MaskOn | Python, Tensorflow, Keras, HTML/CSS, Flask

July 2020 - May 2022

- MaskOn is a web app built with a convolutional neural network to determine whether or not a user is wearing their mask through cameras
- Built the Neural Network using Python and Tensorflow, and trained it through image augmentation
- WebApp designed using HTML/CSS and Flask
- User feedback reinforces the TensorFlow model, increasing accuracy to **91%**

TECHNICAL SKILLS

Languages: Java, Python, C++, C sharp, SQL, Golang, JavaScript, HTML/CSS

Frameworks/Libraries: Flask, Django, React, Node.js, JUnit, Springboot, Haystack, Pytorch, NumPy, Pandas, Tensorflow, Keras

Developer Tools: Git, Docker, Kubernetes, Azure Cloud, VS Code, IntelliJ, Eclipse, MongoDB, Maven, AWS Cloud, Linux/UNIX, ROS, Unreal Engine, PostGres SQL, Service Fabric, Kusto

Relevant Coursework: Parallel Computing, Data Structures and Algorithms, Probability and Distribution Theory