

# Aashay Mukesh Motiwala

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## SUMMARY

Diligent backend & web development enthusiast with demonstrated history of working with Cloud Solutions, APIs and web frameworks. Firm believer in productive brainstorming to convert general problems into algorithmic solutions through innovative approaches. Excellent communication and leadership skills in a team environment.

## WORK EXPERIENCE

**Frugal Innovation Hub** – Mobile Developer, Student Developer (Santa Clara, CA).

**Feb 2022 – Present**

- Collaborated on “PTHub”, a React Native app for events and navigation, with cost and CO2 savings tracking for public transport.
- Migrated the application from an old codebase with modern libraries and containerized the application using Docker.
- Designed API to implement gamification and scenic route features to promote public transportation usage.

**INRIX** – Backend Java Developer Intern (Kirkland, Washington)

**Jun 2022 – Sep 2022**

- Developed "Drone-View," a real-time traffic and vehicle tracking tool based on Drop Wizard, which reduced back-of-queue incidents by 30% and lowered the client's infrastructure costs by 21%.
- Leveraged Kafka and AWS Elastic Cache for efficient streaming and storage of 10M datapoints, achieving fast read/write. Utilized AWS S3 for time-travel functionality and deployed the application with AWS Kubernetes, ECS, and Git Actions for seamless CI/CD.
- Developed a Road Water Safety Alert Service that utilized Kafka Queue, AWS cloud services, SQL, and Restful APIs to display hazardous road conditions on maps.

**Capgemini** – Software Developer Intern (Mumbai, India)

**Nov 2020 – Feb 2021**

- Created a pneumonia detection model which provided precision and recall rate of 86.66%. It was achieved using AutoML Vision and gradient boosted model using 5190 Chest X-Ray images.
- Developed model for Fraud detection in transactions and streamlined the data using GCP's Dataflow and AI platform which eventually stored the predicted information on cloud storage using Big Query.

**TryCatch Group** – Machine Learning Intern (Mumbai, India)

**Aug 2019 – Feb 2020**

- Worked on 'Gender recognition' using Support Vector machine and conducted 'Sentimental Analysis' on 'Elections in India' using Tweepy API. Lead this and other projects to educate the students that were enrolled at Try catch.

## SKILLS

- **Frameworks & Web Technologies** - Drop Wizard, Spring, Kafka, ReactJS, React Native, NodeJS, Flask, Sinatra, REST
- **Cloud Technologies** –AWS Elastic Cache, AWS ECS - ECR, Kubernetes, AWS Lambda, Google Cloud, Git Action
- **Databases** - AWS S3, Redis, MySQL, T-SQL, MongoDB, Oracle, Hive
- **Languages** - Python, Java, JavaScript, Typescript, SQL, HTML , Ruby on Rails, Bash, C

## EDUCATION

**Santa Clara University, CA**

**Mar 2021 – Mar 2023**

Accomplished Master's in Computer Science and Engineering

GPA 3.9/4.00

**University of Mumbai, India**

**Jun 2016 - Nov 2020**

Accomplished Bachelor of Information Technology

GPA 3.5/4.00

**Relevant Courses:** Data Structures and Analysis of Algorithms, Advanced Operating System, Cloud Computing, Artificial Intelligence, Computer Architecture, Advanced Database Systems, Computer Networks, Distributed Systems.

## PROJECTS (Academic & Personal)

**News App** (Spring Boot, Flask, AWS Lambda, Redis)

**Jun 2021**

- Implemented a pub-sub model based Distributed News application. The aggregator service was built with Spring Boot, and the data was stored on a REDIS hosted server. AWS lambda was used to trigger the aggregator, while Flask was used for the client-side service.

**Insta Clone** (React, Node, Mongo, Redux and Context management)

**Jan 2021**

- Created a protected social media web application based on MERN stack. Used hooks and redux for managing the state and context for each user.

## PUBLICATION

- "E – Voting System Using Block-chain". SamRiddhi, A Journal of Eng & Tech. Volume 11 No SUP (2019).