

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.

SKILLS

Frameworks & Web Technologies - Dropwizard, Spring, Kafka, ReactJS, NodeJS, Vue, Flask, REST, HTML

Cloud Technologies – AWS ECS, AWS ECR, AWS Elastic Cache, Kubernetes, AWS Lambda, Google Cloud Platform

Databases - AWS S3, Redis, MySQL, MongoDB, Oracle, Hive

Languages - Python, Java, JavaScript, Bash, C

WORK EXPERIENCE

INRIX – Backend Java Developer Intern (Kirkland, Washington) Jun 2022 – Sep 2022

- Developed “Drone-View”, a real-time traffic/vehicle tracing tool based on **DropWizard**, to reduce the number of back-of-queue incidents, lowering client's infrastructure costs by roughly **21%**.
- Leveraged **Kafka** and **AWS Elastic Cache** to stream and effectively store **10 Million** datapoints and achieve fast read/write speeds for displaying **500k data points per minute** on the map. Used **AWS S3** which allowed the user to go back in time and replay the traffic flow at the time of incident. For **CI/CD**, deployed the application using **AWS Kubernetes, ECS, ECR, and Git Actions**.
- Created Road Water Safety Alert Service that displayed risky road conditions on maps using **Kafka Queue, AWS** cloud services and **Restful APIs**.

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**.

Try catch Group – Machine Learning Intern (Mumbai, India) Aug 2019 – Feb 2020

- Developed ‘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.

EDUCATION

Santa Clara University, CA Mar 2021 – Mar 2023
Candidate for Master's in Computer Science and Engineering GPA 3.9/4.00

University of Mumbai, India Jun 2016 - Nov 2020
Candidate for Bachelor of Information Technology GPA 8.15/10.00

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

PROJECTS (Academic / Personal)

Insta Clone 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.
- Tech Stack – React.js, Node.js, Mongo Cloud, Express.js, Redux and Context management, JWT Tokens.

News App June 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** (python) was used for the client-side service.

Post-Conviction Relief for Immigrants in California (Awarded 1st prize in Hackathon) Nov 2021

- Designed an interactive website to help people find Post-Conviction relief. Using **rule-based engine** and **Survey JS** collected information about the users and their case.
- Tech Stack – Flask, Survey.js, JavaScript, Rest services, HTML, CSS, Yup Validation.

PUBLICATION

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