

# Mohammed Saqib Rahman

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## EDUCATION

University of California, Irvine, USA

Master of Computer Science (MCS)

Relevant Coursework: Data Structures, Algorithms, Parallel & Distributed Computing, Big Data Management.

Sep 2022 – Dec 2023

GPA – 3.97/4.0

SRM Institute of Science & Technology, India

Bachelor of Technology in Computer Science (B.Tech CSE)

Relevant Coursework: Database Design, Operating Systems, Object Oriented Programming, Artificial Intelligence, Machine Learning.

Jun 2018 – May 2022

GPA – 3.94/4.0

## CERTIFICATIONS

AWS Certified Cloud Practitioner (AWS CLF-C01)

Issued: May 2023

Python Programmer Certified by Python Institute (PCEP-30-02)

Issued: Jul 2023

## SKILLS

**Programming Languages:** Python, Java, Bash, Shell Scripting.

**Amazon Web Services (AWS):** EC2, EBS, S3, CloudWatch, DynamoDB, Lambda, ECS, EKS, CloudFront, CloudFormation.

**DevOps Tools:** Docker, Jenkins, Kubernetes, Terraform, Ansible.

**Web Technologies:** HTML5, CSS3, JavaScript, Flask, React, Node.js, Express.js, Vert.x.

**Other Technologies:** Oracle Cloud Infrastructure (OCI), SQL, MongoDB, GitHub.

## PROFESSIONAL EXPERIENCE

Genentech, CA, USA

Mar 2024 – Present

**Software Development Engineer**

- Providing software engineering development services to Genentech through Akra.
- Contributing to the backend development of Genentech's Digital Health Application using Java and Vert.x
- Designing and maintaining RESTful APIs for Genentech's data pipeline.

Match4Action-CrowdDoing, CA, USA

Jan 2024 – Mar 2024

**Full Stack Engineer (Volunteer)**

- Contributor to phase 0 development of **Nature Counter app**, promoting mental well-being through nature immersion and gamified activities.
- Designing a **reward system** to incentivize users for consistent engagement in nature.
- Architected an intuitive **course blog webpage**, delivering **bite-sized information** for enhanced user experience.

Teenpreneur, India

May 2020 – Aug 2020

**Summer Intern**

- Collaborated and engaged with a team of 12 members and digitally distributed their flagship product; an e-book titled "**CashBook101**".
- Found the most potential user-base for our product to increase reach by using **Google Analytics**.
- Reached out to **3600 influencers** over the course of 90 days. **Closed 18 high-valued influencers** to help market our product.

## PUBLICATIONS

Honored with Best Paper Award. Presented a paper titled "**Face Mask and Social Distancing detection using Deep Learning**" at the Virtual **International Research Conference on IoT, Cloud and Data Science (IRCICD'22)** held at **SRM Institute of Science & Technology**.

## ACADEMIC PROJECTS

**Mask Mandate Enforcement System**

- Led a team of 3 to build a smart monitoring system to help enforce Covid-19 regulations by scanning for face masks using **ResNet50**.
- Trained on a Kaggle dataset using **Faster Regional Convolutional Neural Network** with **Region Proposal Network** for ~150 epochs.
- Deployed successfully on over 36 cameras simultaneously, resulting in **accuracy of 96%**, having a **latency of 1.7 seconds**.

**Background BGone**

- Developed a progressive web app using **Flask** that integrated **ResNet50** using **Transfer Learning** which allows users to create stickers in a single click by removing background from their images.
- Added features such as quick preview and download options, as well as a grid view for convenient access and sharing of edited images.
- Achieved an **accuracy of 90%** and a **response time of <1.5 seconds**.

**Truffle Health Web Application**

- Designed and implemented the front-end of a Medical Bill tracking application for Truffle Health to check for errors in billing and pricing using **HTML5, CSS3, JavaScript and React.Js**.
- Connected with Truffle Health's state-of-the-art in-house machine learning model to detect for overcharges, duplicate charges and billing errors.
- Obtained a **response time of <50ms**.