

# 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

PXA Industry Fundamentals - Affiliate and Partnerships Industry

Issued: Nov 2024

## SKILLS

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

**Cloud & DevOps Tools:** Amazon Web Services (AWS), Docker, Jenkins, Kubernetes, Apache Kafka, Oracle Cloud Infrastructure (OCI).

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

**Other Skills:** GitHub, BitBucket, Jira, Linux, Microsoft Project, Confluence, SQL, MongoDB.

## PROFESSIONAL EXPERIENCE

Genentech, CA, USA

Mar 2024 – Present

**Software Development Engineer**

- Spearheaded **backend development** for Genentech's Digital Health Application using **Java** and **Vert.x**, enhancing functionality and performance.
- Led **root cause analysis** to resolve system slowdowns, optimizing RESTful APIs to improve **operational efficiency by 20%** and reducing **API response time by 15%**.
- Coordinated **test releases** and cross-functional team efforts to **deliver key project milestones**, meeting **tight deadlines** with high **quality standards**.
- Identified **project risks**, defined **mitigation strategies**, and ensured alignment across stakeholders for effective **risk resolution**.
- Conducted **unit testing** with **JUnit4** and **Mockito**, and **SonarQube analysis**, achieving **higher code coverage** and service reliability.

Match4Action-CrowdDoing, CA, USA

Jan 2024 – Mar 2024

**Full Stack Engineering Intern**

- Contributed to phase 0 development of **Nature Counter app**, promoting mental well-being through nature immersion and gamified activities.
- Implemented a reward system, **increasing user engagement by 40%** and **interaction frequency by 25%**.
- Managed **test releases**, ensuring seamless integration and rollout of **application features**, meeting all deadlines and **quality benchmarks**.
- Designed a blog webpage, **improving content accessibility by 35%** and **user retention by 20%** through concise and easily digestible information.

Teenpreneur, India

May 2020 – Aug 2020

**Summer Intern**

- Collaborated with a **12-member cross-functional team** to design a **distribution strategy** for the flagship product, “CashBook101”
- Leveraged **Google Analytics** to identify and target **high-potential users**, resulting in a significant increase in **product visibility** and **market reach**.
- Established **partnerships** with over **3600 influencers**, closing **18 high-value collaborations** to amplify product marketing efforts and engagement.
- Streamlined the coordination of **influencer marketing campaigns**, ensuring timely execution and alignment with overall business objectives.

## PUBLICATIONS

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).

## ACADEMIC PROJECTS

**Mask Mandate Enforcement System**

- Led a cross-functional team of 3 to deploy a monitoring system for enforcing Covid-19 regulations by detecting face masks using **ResNet50**.
- Oversaw project timelines, task assignments, and system deployment on 36 cameras, ensuring delivery within set deadlines.
- Trained a **Faster R-CNN** model with **Region Proposal Network** for **~150 epochs**, achieving **96% accuracy** and a **latency of 1.7 seconds**.
- Trained on a Kaggle dataset using **Faster Regional Convolutional Neural Network** with **Region Proposal Network** for **~150 epochs**.
- Managed risk and optimized deployment to handle simultaneous streams efficiently, ensuring **reliable system performance**.

**Background BGone**

- Coordinated development of a progressive web app with **Flask**, managing integration of **ResNet50** with **Transfer Learning** to enable real-time background removal.
- Directed project phases from ideation to implementation, achieving **50% faster preview generation** and a **response time of <1.5 seconds**.
- Enhanced user satisfaction through features like grid view, download options, and increased accessibility, boosting image-sharing **efficiency by 30%**.