Mohammed Saqib Rahman

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EDUCATION

University of California, Irvine, USA — Sep 2022 – Dec 2023
Master of Computer Science (MCS) — **GPA – 3.97/4.0**
Relevant Coursework: Data Structures, Algorithms, Parallel & Distributed Computing, Big Data Management.

SRM Institute of Science & Technology, India — Jun 2018 – May 2022
Bachelor of Technology in Computer Science (B.Tech CSE) — **GPA – 3.94/4.0**
Relevant Coursework: Database Design, Operating Systems, Object Oriented Programming, Artificial Intelligence, Machine Learning.

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.
Amazon Web Services (AWS): EC2, EBS, S3, CloudWatch, DynamoDB, Lambda, ECS, EKS, CloudFront, CloudFormation.
DevOps Tools: Docker, Jenkins, Kubernetes, Apache Kafka.
Web Technologies: HTML5, CSS3, JavaScript, Flask, React, Node.js, Express.js, Vert.x, Spring.
Other Technologies: Oracle Cloud Infrastructure (OCI), SQL, MongoDB, GitHub, BitBucket, Jira, Linux.

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.
- Proficient in **RESTful API development** with Vert.x, contributing to a **15% reduction** in **API response time**.
- 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%**.
- Designed a course 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 team of 12 members and digitally distributed their flagship product; an e-book titled **"CashBook101"**.
- Identified the most potential user-base for our product to increase reach by using **Google Analytics**.
- Engaged with over **3600 influencers** over the course of 90 days. **Closed 18 high-valued influencers** to help market our product.

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 team of 3 to build a smart monitoring system for enforcing 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 on 36 cameras simultaneously, resulting in **accuracy of 96%**, and **latency of 1.7 seconds.**

Background BGone
- Developed a progressive web app using **Flask**, integrated **ResNet50** with **Transfer Learning** to allow users to create stickers by removing backgrounds from their images.
- Enhanced user experience with a quick preview (**50% faster**), download options, grid view, **boosting image access** and **sharing efficiency** by **30%**.
- Achieved an **accuracy of 90%** and a **response time of** <1.5 seconds.

Text Summarizer using Gen AI
- Engineered a Flask application for **real-time text summarization** with a processing speed of **<2 seconds** per document.
- Utilized **Hugging Face Transformers** to generate summaries with **90%+ accuracy** for diverse text inputs.
- Crafted an intuitive interface with **99% uptime** and **effective error handling**, optimizing user experience and reliability.