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

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, BitBucket, Jira, Linux.

PROFESSIONAL EXPERIENCE

Genentech, CA, USA   Mar 2024 – Present
Software Development Engineer
- Drove backend development for Genentech's Digital Health Application utilizing **Java** and **Vert.x**, enhancing functionality and performance.
- Proficient in **RESTful API development** using Vert.x, contributing to a **15% reduction** in **API response time**.
- Conducted **unit testing** with **JUnit4** and **Mockito**, performed **SonarQube analysis**, achieving **higher code coverage** and reliability in services.

Match4Action-CrowdDoing, CA, USA   Jan 2024 – Mar 2024
Full Stack Engineering Intern
- Contributor to phase 0 development of **Nature Counter app**, promoting mental well-being through nature immersion and gamified activities.
- Developed a **reward system** to incentivize and **boost user engagement** with nature through consistent interaction.
- Designed an intuitive **course blog webpage**, delivering concise, easily digestible information to **enhance 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.
- Enhanced the platform by introducing features like quick preview, download options, and a grid view, optimizing access and sharing of edited images for a seamless user experience.
- 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**.
- Integrated Truffle Health's cutting-edge in-house machine learning model to identify and rectify overcharges, duplicate charges, and billing errors.
- Obtained a **latency of <50ms.**