

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.

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.

DevOps & Cloud Technologies: Docker, Kubernetes, Jenkins, Amazon Web Services (AWS).

Web Technologies: HTML5, CSS3, JavaScript, Flask, Node.js, Express.js.

Other Technologies: SQL, MongoDB, GitHub, BitBucket, Jira, Linux, Unix.

PROFESSIONAL EXPERIENCE

Genentech, CA, USA

Mar 2024 – December 2024

Software Development Engineer 1

- Spearheaded backend development for Genentech's Digital Health Application, enhancing functionality and performance.
- Developed and Optimized **RESTful API** with **Java** and **Vert.x**, contributing to a **15% reduction** in **API response time**.
- Executed **unit testing** with **JUnit4** and **Mockito**, and **SonarQube analysis**, achieving **higher code coverage** and **reliability**.
- Delivered critical backend services ahead of schedule, contributing to a **25% faster release cycle** for the Health Application.
- Achieved **99.9% uptime** for backend services by optimizing API error handling strategies.

Match4Action-CrowdDoing, CA, USA

Jan 2024 – Mar 2024

Back-End Engineering Intern

- Played a key role to phase 0 development of **Nature Counter App**, promoting mental well-being through nature immersion and gamified activities.
- Collaborated with a cross-functional team to design and integrate backend solutions, ensuring alignment with product goals and timely project delivery.
- Implemented a reward system, **increasing user engagement** by **40%** and **interaction frequency** by **25%**.
- Engineered a **course blog webpage** using **Python** and **Flask**, enhancing **content accessibility** by **35%** and driving a **20% increase in user retention**.
- Optimized **API performance** and ensured seamless data flow between frontend and backend, improving **response time** by **15%**.

ACADEMIC PROJECTS

Mask Mandate Enforcement System

- Led a team of 3 to build a monitoring system for enforcing Covid-19 regulations by scanning for face masks using **ResNet50**.
- Trained on a 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.