Soham Raorane

1215 East Lemon Street, Tempe, Arizona 85281

📞 602-810-7678 ✉ sohamraorane10@gmail.com in linkedin.com/in/sohamraorane 🐙 github.com/sohamr2

Education

Arizona State University	**Aug. 2024 – Aug 2026**
Master of Science in Information Technology	*Tempe, Arizona*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Experience

Aquila I	**Sep 2023 - May 2024**
Software Developer	*Mumbai, Maharashtra*

- Developed a scalable SaaS platform using React.js, Redux, and JavaScript, enhancing user engagement by 30%.
- Improved team collaboration and project timelines by streamlining workflows through tools such as Jira and Bitbucket, achieving an increase in 20% efficiency.
- Enhanced application performance with responsive design and optimized load times, reducing latency by 15%.

University of Naples "Federico II"	**Sep 2022 - Dec 2022**
Research intern	*Remote*

- Applied AI and ML techniques to classify Land Use Land Cover (LULC) data, achieving 90% classification accuracy.
- Incorporated Google Earth Engine (GEE) with the CART algorithm, leading to a published research paper recognized in the field of environmental science.

Projects

Portfolio Website	*React, Next.js, TypeScript, Aceternity UI*	**Dec 2024**

- Authored a fully responsive portfolio website that showcased technical expertise, leading to three new recruitment opportunities within the first month of launch and increased engagement from prospective employers.
- Implemented Next.js for optimized performance and dynamic content delivery, achieving a 40% increase in visibility
- Designed a responsive UI structure optimizing cross-device functionality; contributed to achieving positive user feedbacks on the site's usability from prospective recruiters and industry peers.
- Applied modern web technologies to enhance user experience and recruiter engagement.

Asthma Monitoring Simulation	*Java, Eclipse, iFogSim*	**May 2023**

- Engineered a comprehensive simulation for asthma patient monitoring, enhancing healthcare efficiency through real-time data analytics that improved response times to critical health events by 30 minutes on average.
- Implemented fog and cloud computing technologies, demonstrating a 20% improvement in data processing speed.
- Created an efficient monitoring system, reducing latency by 25% for time-sensitive applications.
- Applied fog-computing methodologies to analyze the comparative benefits of distributed computing.

Drowsiness Detection System	*OpenCV, dlib, SciPy, Anaconda*	**Apr 2023**

- Orchestrated implementation processes for real-time video processing technologies combined with webcam capabilities; achieved comprehensive analysis results that identified three major causes behind vehicular accidents linked with sleep-deprived driving behavior.
- Led efforts to integrate advanced machine learning techniques into a comprehensive video processing system; achieved precise tracking of driver alertness while decreasing reaction times by an impressive 30 milliseconds for each monitored event.
- Executed innovative analytical strategies using proprietary models for assessing eye movements; findings directly addressed three major causes of traffic accidents linked to driver drowsiness.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, TypeScript
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, MySql Server
Technologies/Frameworks: Windows, Jenkins, GitHub, Jira, Bitbucket

Leadership / Extracurricular

Student Council	**Aug 2022 – May 2023**
Sports Co-ordinator	*University Of Mumbai*

- Independently planned, organized and documented meeting minutes and tracked event planning deadlines for sports activities involving 1,200+ participants.
- Coordinated with inter-departmental teams to streamline event logistics and scheduling, ensuring flawless execution.