

# SOUMIL SAXENA

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## EDUCATION

University of South Florida - Bachelor of Engineering (B. Eng)

Aug 2019-Aug 2023

**Computer Science** with a minor in Mathematics

*Relevant Courses: Analysis of Algorithms, Database Design, Software Engineering, Object Oriented Programming, Computer Architecture, Operating Systems, Software Testing, Secure Coding, Software Systems Design.*

## TECHNICAL SKILLS

C++, C, C#, Python, Java, JavaScript, Angular, Flask, Django, SQL, Git, NodeJS, MongoDB, Heroku, Flutter, Kotlin, Hadoop, ReactJS, Pandas, TensorFlow, Tableau

## WORK EXPERIENCE

**Resilience Inc.**

Oct 2021-Feb 2022

Software Engineer Intern

- Collaborated with a seasoned team at Resilience to develop a React Native app focused on Social Emotional Learning (SEL) for K-12 students, enhancing educational outcomes.
- Developed reusable React Native components and utilized state management libraries like Redux to build a scalable and maintainable codebase.
- Ensured cross-platform compatibility by rigorously testing the app on various iOS and Android devices, resolving platform-specific bugs and UI inconsistencies.
- Engaged in code review processes, offering insightful feedback to team members that contributed to improved code quality and team collaboration.

**Society of Asian Scientists and Engineers at USF**

May 2021-March 2022

Director of Southeast Regional Conference

- Oversaw and led all conference committees and conducted weekly meetings for 30 members.
- Worked with committees to develop a list of guest speakers, activities at the conference, and meal arrangements.
- Managed a budget and attracted over \$10000 in sponsorship from industry leading companies.

## PROJECTS

**ER EMR Streamlining | SQL**

Jan 2023 – May 2023

- Utilized ER datasets from a local hospital to identify potential annual cost savings exceeding \$2M+ through streamlined patient timelines, resulting in improved operational efficiency and patient outcomes.
- Utilized advanced data mining techniques to improve patient outcomes through collaboration.
- Utilized Python and SQL to analyze patient data, including arrival/departure times and medication/test schedules, identifying areas for optimization.
- Designed and implemented parallel processing system for more efficient scheduling of tests/medications, resulting in improved patient care and reduced wait times.

**Car Enterprise | Python**

Jan 2023 – May 2023

- Developed a robust and scalable web application using Flask and Bootstrap, meeting the complex requirements of a leading car enterprise with advanced Python skills.
- Designed and integrated a normalized PostgreSQL database schema, utilizing advanced SQL queries and indexing strategies for optimal performance and data integrity.
- Utilized Agile methods to contribute to end-to-end software development, including design, coding, testing, and deployment.

**Social Network Platform | MEAN Stack**

May 2023 – Aug 2023

- Architected and developed a full-fledged Social Networking Platform using the MEAN stack.
- Designed MongoDB schema and optimized queries, achieving high-performance data storage capable of handling large sets of user data.
- Implemented a RESTful API using Express.js, featuring 16 endpoints for user authentication, real-time messaging, and social interactions.
- Developed Angular components and services to build an intuitive front-end, incorporating features like real-time messaging, customizable user profiles, and a dynamic news feed.

## LEADERSHIP EXPERIENCE

**Director of Sponsors**, Hackabull, Society of Hispanic Professional Engineers

Aug 2021-March 2022

**Member**, ACM (Association of Computing Machinery), USF Student Chapter

Sep 2019-Present

## AWARDS AND CERTIFICATIONS

AI Summer School Certification