Saatvik Rao

480-955-6747 | smrao4@asu.edu | linkedin.com/in/saatvik-rao

EDUCATION

As a Senior Computer Science student, I'm eager to complement my academic foundation with hands-on experience in software development, which is my passion. My goal is to acquire practical insights from the real world and foster the growth of my career in this dynamic field.

EDUCATION

Arizona State University, Tempe, AZ **Tempe, AZ**
B.S. Computer Science. 3.8 GPA *Graduation Date: Dec 2024*

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Principles of Programming Languages, Intro to software Engineering, Principles of Mobile App Dev, Intro Theoretical Computer Science, Database Management, Software Quality and Testing

SKILLS AND CERTIFICATES

Programming Languages, Databases: Java, Python, C/C++, Swift, Bash, MySQL, PostgreSQL, JavaScript, CSS, HTML
Professional Certificate: Meta Back-End Developer (Django Web Framework, APIs)

WORK EXPERIENCE

Arizona State University: Technology Consultant **Aug 2022-Present**

- Proactively engaged in collaborative efforts with university administration and fellow student peers to identify, troubleshoot, and resolve classroom-related software and hardware challenges.
- Demonstrated effective problem-solving and teamwork skills in ensuring a seamless learning environment. Contributed to the overall improvement of classroom technology infrastructure.

Arizona State University: Business and Finance IT **Aug 2021 - May 2022**

- Delivered comprehensive technical support to various departments within Arizona State University, fostering close collaboration with cross-functional teams to promptly tackle and resolve software and hardware-related customer issues.
- Consistently demonstrated agility in analyzing and resolving problems on the fly, highlighting a robust problem-solving acumen.

PROJECT EXPERIENCE

Kernal Virtual Memory Implementation **Spring 2023**

- Designed and implemented kernel functions for virtual memory management in a multiprogramming environment, closely emulating real-world OS memory management akin to Linux.
- Improved my expertise in memory virtualization within the kernel space, showcasing my proficiency in systems programming.
- Implemented dynamic page allocation strategies to enhance memory utilization and reduce fragmentation, contributing to the overall efficiency and performance of the virtual memory system.

Custom Language Lexer and Type Checker **Summer 2023**

- Designed and implemented a custom language featuring a sophisticated grammar, robust type system, and effective type-checking mechanism.
- Proficiently managed type errors and delivered comprehensive variable type information in diverse program scenarios, showcasing adept problem-solving and software development expertise.

Pediatric Doctor's Office Automation System **Summer 2023**

- Led a collaborative project within a university environment to develop a comprehensive software system for a Pediatric Doctor's Office, encompassing requirement analysis, project planning, design, development, and testing.
- Managed a team of five students, ensuring equal distribution of project tasks.
- Delivered successful project phases, enhancing skills in software development, teamwork, and project management.