

Rakan Alrasheed

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EDUCATION

Shiley-Marcos School of Engineering, University of San Diego

San Diego, CA

- Bachelor of Science / Bachelor of Art in Computer Science
- Concentration in Artificial Intelligence and Data Science.

Graduation Date: May 2024

WORK EXPERIENCE

Lab Assistant | University of San Diego

Jan2024 – present

- I help students grasp data structures, trees, sorting algorithms, and Big O notation, for a python programming class bolstering their coding and theoretical understanding.

Software Engineer Intern | Ecorithms, San Diego, CA.

Jul 2023 – Sep2023

- Developed and maintained a mobile web application for the solid waste industry. Working with Svelte, and Node.js for front-end and back-end integration.
- Employed TypeScript, CSS, and Swift for enhanced app functionality and design.
- Acquired extensive datasets for the app, enabling it to audit, recognize, and categorize waste efficiently, leveraging YOLO, a real-time object detection model.

Computer Science Tutor | University of San Diego

January 2023 – May 2023

- Responsible for teaching students several CS classes, including Operating systems, Computer Systems, Object-oriented programming, Automata, Algorithms, and Principles of Digital Hardware.
- Provided personalized assistance to students through sessions, and addressing challenges, resulting in improved comprehension and higher grades for participants.

Web Developer | Bayelsa LNG, San Diego, CA.

Jun 2022 – August2022

- Designed, developed, and maintained responsive and user-friendly website using HTML, CSS, TypeScript, and frameworks like React, and Svelte.
- Created visually stunning and engaging graphics, including flyers, presentations, and logos, that align with the company's branding guidelines.

SOFTWARE ENGINEERING PROJECTS

Obstacle Avoidance App | Project Lead

Aug 2023 – May 2024

- Contributing to a software engineering project aimed at creating an app that assists visually impaired individuals in navigating obstacles by wearing a phone on the chest that provides audio feedback.
- Focusing on coding the application using Swift and leading the AI integration, which includes training the AI with specific datasets using YOLO v8 for precise obstacle detection.
- Enhancing the app's functionality by integrating it with AWS and other cloud services, ensuring robust data processing and storage capabilities.

Voice Command System | Personal Project

- Developed a voice command system using Raspberry Pi for controlling room lights.
- Implemented speech recognition algorithms to enable hands-free control of lighting settings.

Apartments Management System | Personal Project

- Created a system to efficiently manage room maintenance, cleaning schedules, and improvement requests.
- Designed a user-friendly interface for managers, allowing easy access and updating of apartment details via the MySQL database.

LEADERSHIP EXPERIENCE

Outreach Executive and Team Leader (ITeam)| International Students Organization (ISO)

Jan 2021 – Dec 2021

- Successfully guided new students, organized orientations and mentors, fostered a welcoming environment, and enhanced their comfort and adaptation to school life as an international student.

SKILLS AND QUALIFICATIONS

Programming Languages: C, Python, Java, Swift, System Verilog HDL, HTML, CSS, TypeScript, JavaScript.

Other Skills: Raspberry Pi, MySQL, Excel, Word, PowerPoints, Marketing