Osaid Samman

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OBJECTIVE

Seeking a full time opportunity in Embedded Systems, IT, Cybersecurity, Software/Computer Engineering.

EDUCATION

Iowa State University | Bachelor of Science in Computer Engineering, Ames, IA   May 2025
- Cumulative GPA: 3.33; Dean's List 2023 - 2025
- Minor in Business

EXPERIENCE

Research Assistant   October 2025 - November

King Abdulaziz University | Jeddah, Saudi Arabia
- Supported research teams by leveraging AI tools and models for data analysis and communicated findings to the team.
- Provided technical guidance on AI integration, model selection, and workflow automation for research applications.

Full Stack Developer   June 2025 - September 2025

King Abdulaziz University | Jeddah, Saudi Arabia
- Developed a full-stack academic scheduling tool for KAU using React, TypeScript, Node.js, Express, and Sequelize.
- Implemented role-based access control, dynamic dashboards, and admin features for course and user management.
- Integrated RESTful APIs, JWT authentication, and robust data validation for secure, scalable performance.

Animal Science Network Engineer IT Internship   May 2023 - August 2023

Iowa State University | Ames, IA
- Installed and configured network access points, improving connectivity for 50+ devices across multiple locations.
- Provided hands-on troubleshooting for hardware and software issues, including AV setups and domain registration.
- Reimaged machines and optimized system performance for faculty and student use.

IT Technical Support   August 2021 - December 2021

Iowa State University | Ames, IA
- Delivered technical support for software and hardware used by students and faculty via walk-ins and a ticketing system.
- Managed maintenance and setup of over 20+ devices per day, including computers, printers, and projectors.
- Assisted with troubleshooting network issues and installing essential software for university systems.

PROJECTS

Pressure Sensor Patch

Pressure-Monitoring Device for Pressure Sore Prevention
- Led and collaborated with a team to develop an embedded pressure-monitoring system using multi-zone sensors on a Raspberry Pi, programmed in MicroPython for mobile real-time data acquisition.
- Managed Agile sprints, coordinated tasks, and ensured smooth communication with clients and advisors.
- Gained expertise in project management, user-centered design, and sensor integration for accessibility solutions.

Coin Control

Financial Planner Android Application
- Built an Android application for budgeting and expense tracking using Java and Spring Boot.
- Developed SQL database functionality to store and manage financial data.

MIPS Processor

Computer Architecture Project
- Designed and implemented a single-cycle and pipelined MIPS processor using VHDL and MIPS assembly.
- Optimized CPU design, exploring software-hardware interactions and addressing hazards.
- Debugged and tested implementation with ModelSim for accurate functionality.

SKILLS

Programming Languages: Java, C, C#, Python, HTML, CSS, JavaScript, TypeScript, Verilog, VHDL, SQL, MIPS Assembly
Technical Skills: Linux (Redhat, Ubuntu) React, Node.js, Express, Sequelize, JWT, REST APIs, Bootstrap, MongoDB, Spring Boot, Postman, VSCode, IntelliJ, Cygwin, ModelSim, Quartus Prime, Code Composer Studio, Unity, Wireshark, Networking
Certifications: Google IT Support Professional Certificate   **Languages:** English, Arabic