

ABDELRAHMAN MOHAMED

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EDUCATION

Bachelor's in Computer Science; Mathematics & Bus. Admin. Minors Aug 2017 - May 2024
California State University, Sacramento

- Awards/Honors: Dean's Honor Roll for 3 years, International Student Scholarship

PROFESSIONAL EXPERIENCE

STMicroelectronics Jun 2023 - Dec 2023

Data Engineering Co-op (Full-Time)

- Engineered enterprise-level **Web scraping & Testing** tools using **Python scripts & Selenium**, applying **QA methods** to automate manual market research workflow, **reducing team research times by ~95%**
- Inspected **5000+ listings** of interest daily by inspecting site elements including **HTML &** analyzed embedded **JSON APIs** using Selenium tools to extract valuable information and observe trends
- Acquired expertise in **semiconductor technologies**, ICs, microcontrollers, circuit design (digital and analog), **sensor interfacing**, and power management, with a focus on **EV and automotive electronics**
- Influenced critical Business **decisions worth ~\$1.9 Billion** by leveraging data rendering & organization tools such as **MS Excel & PowerBI** for further data analysis and presentation to Execs
- Presented market research on lead times, semiconductor products, and propriety MOSFETs & IGBTs to company executives through **20+ executive reports & newsletters**

LegitimIT Jan 2023 - May 2023

IT Support Specialist Intern

- Contracted by telehealth company to **support 15 clients** with a range of IT issues
- Resolved critical IT issues, including router & switch failures, machinery malfunction, & system glitches; **minimized downtime by 50%** & improved operational efficiency by implementing troubleshooting measures

PROJECTS

Custom Bash Shell Implementation

- Developed a custom **Bash shell** using **C** in a **UNIX environment**. Implemented core functionalities including command execution, I/O redirection, and scripting capabilities, showcasing expertise in system calls, memory management, and C programming for system-level development

Library Management System

- Created a Library Management system using C programming language; allowed **storing, altering, & displaying data related to 50 books** by effectively using pointers, and allocating memory on the heap & stack

Pharmacy database

- Built & populated database using MySQL to **keep track of 15 prescription medications and related information**, leveraging the relational database model then executed queries to analyze data

Yaseer Language Website

- Developed a website using HTML, CSS & JS for a language institute, facilitated **enrollment of 80+ students**

ADDITIONAL EDUCATION

Cloud Practitioner Essentials

- Completed AWS Cloud Foundations course, covering AWS concepts, services, security, architecture, pricing, and support.

AlgoLab Data Structures & Algorithms Bootcamp

- Mastered data structures including arrays, trees, linked lists, hash tables, stacks, and queues. Applied expertise to solve LeetCode challenges, with a focus on efficient time and space complexities

CodePath Cyber Security Bootcamp

- Gained in-depth experience with attack vectors including XSS, SQL Injections, and IDOR in a simulated environment using tools like Burp Suite
- Instructed a class of 12 Comp. Science/Engineering students on cybersecurity fundamentals

SKILLS

Python | AWS | Selenium | C | Java | HTML | CSS | MySQL | Git | Unix | CI/CD | Agile | Scrum | Jira