

OMRAN SHAREEF

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🌐 github.com/o-shareef

Education

Iowa State University

August 2022 – Present

Bachelor of Science in **Computer Engineering**, GPA 3.5

Ames, IA

Honors and Awards

Silver Cord Volunteer Award - 150+ hours of volunteer service, **Dean's List** - Spring 2023, Fall 2024

Relevant Coursework

- Data Structures
- Software Development
- OOP
- Digital Logic
- Electrical Circuits
- Linux OS

Technical Skills

Languages: HTML, CSS, Python, Java, C, Assembly, Verilog, Bash, AWK

Developer Tools: VS Code, Eclipse, IntelliJ, Android Studio, Postman

Technologies/Frameworks: Linux Utilities, GitHub, Git, GitLab, JUnit, Springboot, Oracle VirtualBox, MySQL

3d Modeling: CAD through Autodesk Inventor, Fusion 360

Communication: English - fluent speaker, Arabic - native speaker

Work Experience

Information Technology Intern

December 2023 – Present

Electrical Power Products, Internship

Des Moines, IA

- Oversaw the maintenance and optimization of company-wide devices on the network, including computers, cameras, and kiosks. Also maintained current assets on the network and updated device listings to ensure accuracy via Lansweeper
- Played a role in planning, executing technology upgrades, and enhancing overall efficiency.
- Stayed informed about emerging technologies, providing recommendations for improvements to enhance the company's IT infrastructure. Also conducted regular updates and proactive troubleshooting to optimize device performance on the network.

Computer Technician

August 2022 – December 2023

Iowa State University Surplus, part-time during the semester

Ames, IA

- Technical processing of a diverse range of computers and electronics, including troubleshooting, secure data erase, and system re-imaging using Linux Ubuntu through PXE boot
- Maintained internal scripts and various Linux utilities tailored for system specification scraping
- Managed inventory: conducted check-ins, assessed and validated stock, and evaluated needs for upcoming sales.
- Enhanced customer experience during public sale days by providing advice and answering queries related to computers and electronics

Projects

Advanced Binary Tree Encoding & Decoding System | Java

July 2023

- Developed a binary-tree-based encoder and decoder for archived messages, optimizing data storage and retrieval
- Deployed algorithms for binary tree construction and bit-by-bit message decoding from encoding schemes
- Streamlined user interaction with prompts for file input and ensured compatibility with .arch files
- Demonstrated precision with successful file decoding, rendering visuals and detailed statistics for the user

DS4 Maze | C

October 2022

- Developed a maze game, with randomly generated mazes and the ability to control the character utilizing a dualshock 4
- Implemented calculation utilizing the pitch, roll and data count of the controller
- The game interprets and manipulates gyroscope data in terms of X, Y, Z points on a coordinate plane. These points are simulated within the character using a magnitude-like scaling system