

Oways Jaffer

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EDUCATION

Rutgers University

Bachelor of Sciences in Computer Science

Relevant Coursework: Software Methodology, Computer Architecture, Systems Programming

New Brunswick, NJ

Aug. 2021 – May 2025

EXPERIENCE

Web Developer

Rutgers University

Oct 2023 – Present

New Brunswick, NJ

- Spearheaded the end-to-end development and deployment of an educational web tool on an Ubuntu server using AWS, Apache, and JavaScript to ensure a seamless, user-friendly interface for the interactive exploration of magnetic point groups.
- Collaborated with researchers to integrate scientifically accurate features, enabling robust data management and streamlined dataset updates, which significantly enhanced research accessibility and tool utility.

Software Engineer Intern

ExterNetworks

May 2022 – Aug 2022

Piscataway, NJ

- Used MySQL Workbench to manage given databases, restructuring storage of user information while shadowing Software Engineer and Penetration Tester.
- Enhanced multiple services by using data directly from consumer reports to troubleshoot issues.

TECHNICAL SKILLS

Languages: Java, C, C++, x86 Assembly, Shell, Python, Ruby, SQL, HTML, CSS, AHK

Developer Tools: React, Git, Android ADB, Svelte Kit, Vite, Linux environments, PyCharm, IntelliJ, Eclipse, MySQL Workbench, Microsoft Office, Adobe Suite

PROJECTS

Temperature Control Tool for Nvidia GPUs (Linux) | *Nvidia-smi, Shell*

Dec 2022 – Jan 2023

- Utilized bash and integrated Nvidia-smi for automatic temperature based fan control.
- Created log feature to record temperature and fan speed. This also essentially created a live variable for each fan, opening up the possibility of other features in the future.
- Rerouted mandatory .csv output through a fake display into a text file to bypass smi requirements, ensuring a smooth experience.

Photo Album App (Android) | *Java, Maven, Git*

Nov 2022 – Dec 2022

- Designed and developed an Android application for organizing photo albums with Android Studio, leveraging the Android framework and Maven for streamlined app development.
- Implemented an advanced tagging functionality using SQLite to offer users an intuitive way to manage and retrieve their photos effectively.

Media Management Desktop Application (Windows) | *JavaFX, JSON*

Oct 2022 – Nov 2022

- Developed a Windows desktop application utilizing JavaFX for the GUI.
- Added features allowing for multiple users with individual properties using Java serialization. Included admin user to manage profiles.
- Allowed users to transfer copy items between albums by using an absolute path and JSON objects, ensuring no duplicates.