Oways Jaffer

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EDUCATION

Rutgers University — New Brunswick, NJ
Bachelor of Sciences in Computer Science — *Sep. 2021 – Dec 2025*

Relevant Coursework: Software Methodology, Deep Learning, Systems Programming

EXPERIENCE

Software Developer Intern — Jan 2024 – Present
PVE-IDE — *New York, NY*

- Developed full-stack internal tool used to automate and streamline the creation of construction related reports by up to 50% in Flask, Mongo, Django, HTMX, and Bootstrap.
- Implemented repetition functionality by refactoring database management system, reducing template sizes by multiple fold.
- Made responsible for improving site reliability and ensuring a smooth user experience for 100+ engineers by fixing various bugs.

Web Developer — Oct 2023 – Present
Rutgers University — *New Brunswick, NJ*

- Led the development and deployment of an educational web tool for exploring magnetic point groups on an Ubuntu server using AWS, Apache, PHP, and JavaScript, resulting in a seamless, user-friendly interface.
- Streamlined cumbersome manual calculations by ensuring all results are physically viable and searchable within a database, greatly improving efficiency.
- Collaborated with researchers to integrate scientifically accurate features, significantly enhancing data management and research accessibility.
- The tool, available at kcqm.rutgers.edu, is a work in progress with future updates architected to integrate HTMX and Svelte for better performance and fluidity.

Software Engineer Intern — May 2022 – Aug 2022
ExterNetworks — *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++, Bash, Python, JavaScript/TypeScript, Ruby, SQL, HTML.
Developer Tools: React, AWS, Node.js, REST APIs, Mobile Development, express.js, Git, Android ADB, Svelte Kit, Vite, Linux environments, PyCharm, IntelliJ, MySQL Workbench.

PROJECTS

Temperature Control Tool for Nvidia GPUs (Linux) | *Nvidia-smi, Shell* — Dec 2022 – Jan 2023

- Utilized bash and Nvidia-smi for an automatic temperature based fan control system. The base drivers had horrible temperate regulation and so this program allowed user to fine-tune it.
- Created log feature to record temperature and fan speed in real time. This created live variables 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 for the user.