Oways Jaffer

201-418-0462 | realowaysjaffer@gmail.com | linkedin.com/in/owaysjaffer | github.com/Oway5

EDUCATION

Rutgers University   New Brunswick, NJ
Bachelor of Sciences in Computer Science & Data Science   *Dec 2025*

Relevant Coursework: Software Methodology, Deep Learning, Systems Programming

EXPERIENCE

Web Developer   Oct 2023 – Present
Rutgers University - kcqm.rutgers.edu   *New Brunswick, NJ*

- Developed and Deployed a research-focused web tool for exploring magnetic point groups using AWS, Apache, PHP, and JavaScript.
- Engineered a system to automate exploratory calculations, ensuring physical viability and database searchability, improving efficiency by up to 60%
- Collaborated with researchers to implement a reversed MPG search, increasing research accessibility across the whole department, and requiring 3x less compute.
- Architected future updates for kcqm.rutgers.edu, incorporating HTMX and Svelte, with a projected 20%-40% reduction in load times to boost performance and fluidity.

Software Developer Intern   Jan 2024 – Sep 2024
PVE-EDI   *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 variable clustering functionality by refactoring database management system, reducing template sizes by multiple fold.
- Refactored document creation data pipeline to be more modular, enabling the creation of at least 4 distinct features.
- Improved site reliability by fixing 14 issues, ensuring 99.9% uptime for 100+ engineers.

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 extreme customization in the near future.
- Rerouted mandatory .csv output through a fake display into a text file to bypass smi requirements, ensuring a smooth experience for the user.