Shukra Jaliya Nankabirwa

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EDUCATION

SEATTLE PACIFIC UNIVERSITY(SPU)   Bachelor of Science, June 2025

Majors: (1) Computer Science & Engineering and (2) Liberal Arts (Honors)   Major GPA: 2.8

Minor: Data Analytics

Honors/Awards: Reboot Representation Scholar, President's Scholarship, Tuition Reimagined Scholarship, SPU Directors Grant, Washington Bridge Grant, Directors Special Grant

SKILLS AND QUALIFICATIONS

- Programming Languages: **3** years of proficiency in **C++**, proficiency in **SQLite**, **Python, Javascript**, and **Scheme**
- Proficient in Visual Studio and Clion.
- Relevant Coursework: Data **Structures**, Rustc, **JavaScript**, Python, **HTML**, **Applications** Programming, **Algorithms**, Computer Architecture **Calculus** I, II, III, **Physics** for Science & Engineering I, II, Intro to **Statistics**, **Linear** Algebra, **Discrete** Math

CODING PROJECTS

Directed Graph   **February 2024- March 2024**
- Developed a Python **Web crawler** to create a web-link graph by **crawling** websites and extracting URLs as nodes
- Analyzed the connectivity of nodes, enabling insights into the significance and **accessibility** of different web pages.
- Implemented **closeness** centrality and **Dijkstra's for** graph analysis to **u**nderstanding of web structures and relationship

Scheme Linear regression   **October 2023 – November 2023**
- Independently acquired proficiency in **Scheme** programming language for **statistical** analysis and **data processing**
- Implemented file reading functionality in Scheme to optimize data processing, enhancing efficiency of arithmetic calculations
- Computed **standard deviation, alpha and beta coefficients, correlation, and mean** for GPA and SAT scores.

Mobile Application   **April 2023 – June 2023**
- Collaborated with a team of **4** to design and develop an application to track daily water intake for **Android platforms**,
- Created functionality to add and subtract water intake records in real time, providing a seamless user experience
- Utilizing efficient data storage technologies such as **SQLite, Javascript,** and **Wireframe,** enhancing system performance.

Menu Library   **January 2022 – March 2022**
- Developed a menu-driven **application** in **C++** for **managing** grade input, salary for as professors and student.
- Integrated functionality such as file reading/writing operations using object-oriented programming principles and debugging
- Accommodates features like additions and scalability, ensuring the application remains adaptable to evolving requirements.

PROFESSIONAL EXPERIENCE

Software Engineer - SableSync   **November 2023 - Present**
- Augmented **GiTF** files using **C++** to render prefab onto **QR** Codes using **Polycam** and **WebAR**
- Orchestrated **B2B** marketing campaigns by effectively engaging with product stakeholders through professional emailing.
- Collaborated with 3 **AR** developers to release the first company AR experience.

Instructor, AVELA - A Vision for Engineering Literacy and Access, UW   **September 2023 – Present**
- Initiated the first **VR** course in the AVELA program, teaching **30** students to build **VR** apps and craft **AR** images.
- Partnering with Africatown to teach **Python, C++, C#, AI,** and **machine learning** to **100** underrepresented minority students.
- Educates in **computer literacy,** fostering an understanding of computing concepts through engaging, immersive lessons

Vice President & Co-Founder - National Society of Black Engineers, SPU Chapter   **September 2023 – Present**
- **Founded** and led the NSBE SPU Chapter alongside a team of 5, to promote **community** and **support** for Black engineers.
- Represented NSBE SPU at various events, fostering connections and relationships within the academic community.
- Collaborated with **companies** ie Microsoft, Blue Origin, and Boeing, organizing workshops, and **career panels** at my school
- Promoted engagement in NBSE activities by organizing **informative** chapter meetings featuring concise **career** opportunities