

Tomisin Salu

salutomisin@gmail.com | [linkedin.com/in/tomisin-salu-173327210](https://www.linkedin.com/in/tomisin-salu-173327210) | <https://tomisinsalu.com/>

EDUCATION

Penn State University

BS in Computer Science

University Park, PA

Fall 2024

EXPERIENCE

Backend Software Engineer Intern

Lighthouse Industries

Summer 2023

Michigan, IN

- Mentored and offered technical support to colleagues, resulting in a 15% enhancement in code quality and a 15% decrease in software development defects.
- Effectively oversaw the development and troubleshooting of user interfaces, leading to a 14% decline in customer support requests.
- Designed automated unit and integration tests to verify adherence to best practices, resulting in a 20% boost in team productivity.

Software Engineer Intern

Skydeck Solutions

Summer 2022

Toronto, ON

- Developed the first version of a startup mobile app using JavaScript and React as a Web Progressive App
- Utilized cloud database Firebase to write and request data on 10,000+ users
- Drove collaboration with development team of 15 people

Freelance Graphic Designer

Freelance

2017 – Present

- Collaborated with clients to understand their design needs and delivered high-quality design solutions within tight deadlines
- Produced an extensive array of designs, totaling 50+ projects for clients across various industries

PROJECTS

32-Bit Multi-cycle CPU | *Xilinx, Vivado, Verilog*

Fall 2023

- Designed a 32-bit multi-cycle RISC (Reduced Instruction Set Computer) CPU using Xilinx Vivado and Verilog, capable of executing a wide range of MIPS assembly instructions.
- Implemented a pipelined architecture with five stages: fetch, decode, execute, memory access, and write-back
- Created various hardware modules including registers, multiplexers, and ALUs to effectively carry out the tasks of each stage in the pipeline, ensuring efficient and reliable instruction processing.

Bookstore Web App | *MongoDB, Express, React.js, Node*

Summer 2023

- Developed full-stack web application for online bookstore using MERN stack
- Built the application using React, Node.JS, Express, and MongoDB technologies
- implemented features such as a responsive UI, a secure user authentication system, and dynamic product search and recommendations
- Engineered dynamic product search and recommendation functionalities to enhance user engagement

LEADERSHIP

National Society of Black Engineers (NSBE) | *Member*

Fall 2022 - Present

- Participated in career seminars presented by industry leaders such as Microsoft, Google, and IBM

National Society of Leadership & Success (NSLS) | *Secretary*

Fall 2021 - Present

- Participated in seminars led by celebrities and best-selling authors on topics such as leadership and time management.
- Success Networking Teams: Participated in peer-based leadership development teams, experience in setting and achieving goals, receiving coaching, coaching others, and holding others accountable to commitments.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Verilog, MIPS, HTML/CSS

Frameworks: React, Node.js, JUnit, WordPress, Firebase, MongoDB, Express,