

# Tomisin Salu

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## EDUCATION

### Penn State University

*BS in Computer Science, Minor in Entrepreneurship & Innovation*

University Park, PA

*Fall 2024*

## EXPERIENCE

### Software Engineer Intern

Summer 2023

*Amazon*

*New York*

- Developed a network traffic analysis tool for Amazon, capable of processing trillions of data points to generate vital metrics and interpretations. These insights play a crucial role in scaling, budgeting, trend identification, and security risk assessment.
- Designed an intuitive user interface to visualize the generated insights, facilitating informed decision-making processes within Amazon.
- Proficient in Networks, Python, Typescript, SQL, and a range of AWS products, including Athena, S3, QuickSight, Lambda, EMR, Sagemaker, and more.

### Full-Stack Software Engineer Intern

Summer 2022

*Skydeck Solutions*

*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

2017 – Present

*Freelance*

*Remote*

- 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
- 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, SQL

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