

# John Akujobi

Software Engineering Intern

• Jakujobi.com

• John@jakujobi.com

• 417-414-0182

• Brookings, SD 57007

• LinkedIn.com/in/jakujobi

• Github.com/jakujobi



## EDUCATION

### Bachelor of Science in Computer Science -

South Dakota State University (SDSU), Brookings, South Dakota

Expected Dec 2025

CGPA: 3.56/4.0

- Minors in Software Engineering & Mathematics - Dean's list 3/4 semesters – National Society of Collegiate Scholars inductee

**Courses:** Data Structures, Database Management Systems, Object Oriented Programming, Computer Organization & Architecture, Assembly Language, Digital Logic & Design, Data Ethics, Ethical & Security Issues in Computing, Calculus 2, Discrete Math.

## SKILLS

**Programming:** C, C++, C#, Python, PostgreSQL, System Verilog, Assembly Language, .NET, Git, GitHub, GitHub Copilot.

**Development Tools:** VS Code, Docker, Linux, VirtualBox, PgAdmin, Visual Studio, Quartus Prime, Slack, Amazon Code Whisperer.

**Web Development:** Figma, HTML & CSS, WordPress, Drupal, Wireframing, UI/UX design, Adobe Creative Cloud.

## PROJECTS

**C# Automated Rapid Project Setup (CARPS)** – 4 releases available on GitHub

Jan 2024

- Architected CARPS, using python to automatically setup, build & execute new C# and .NET projects – Used by peers in OOP class.

- Implemented advanced error handling, environment detection & portable .exe ensuring robust performances across platforms

**BitBlaster 10-bit Processor** – (On GitHub) Digital logic design Course, SDSU

Oct 2023 - Dec 2023

- Co-engineered a 10-bit custom processor with a multi-stage ALU to execute 14 arithmetic and logic operations.

- Authored over 600 lines of System Verilog code, implemented & demonstrated the processor on a DE10-Lite FPGA board

**HabiFarm hackathon project** – Hackathon, Iowa State University

Oct 2023

- Conceptualized, branded & pitched a business model for a farm equipment rental platform with 3 peers at a high intensity hackathon.

- Innovated 2 working prototypes & established live server access within 8 hours using WordPress, JavaScript, & C++.

**Portfolio Website** - jakujobi.com

Oct 2022

- Designed and built a fully responsive portfolio website with Figma, WordPress, HTML, CSS, Elementor, JavaScript & Cloudflare.

- Configured firewalls & SSL certificates boosting security, and integrated analytics & SEO optimization for increased visibility.

## WORK EXPERIENCE

**Student Employee (Web Design & Data) - Division of Research and Economic Development, SDSU**

Nov 2022 – Present

- Revamped 40+ sections of the Division's website, integrated updated content, informational graphics and enhanced user navigation

- Automated the analysis and visualization of a 55,000+ points data set with python scripts saving weeks of work hours.

- Boosted the efficiency of the data entry & routing process by 60% through integrating excel, power automate, edge, & acrobat.

**Computer Science Teaching Assistant (CSC100L) – Electrical Engr & Computer Science, SDSU**

Aug 2023 – Dec 2023

- Guided 34 out of 40 students to successfully build a Flappy Bird clone with animations, game physics, & score tracking.

- Collaborated with the instructor and 3 other TAs to teach C# programming, VS Code, Unity game engine & debugging concepts.

**Engineering Research & Development Intern - Innovate SoDak, SDSU**

Nov 2022 – July 2023

- Implemented algorithms to reduce large 3d medical device models by over 87%, retaining key features for fluid simulations.

- Transformed 2 core pages of our grant initiative website, alongside updated content which improved the user experience.

**Research Assistant - Department of Agronomy, Horticulture & Plant Science, SDSU**

May 2022 - Jan 2023

- Assisted with 15 Ph.D. studies conducted at 5 research locations, gathered, and reported accurate data from over 9600 sampled cases.

- Examined 350+ sample sets using 2 infrared grain analyzers, processed 2800+ specimens, and operated 8 specialized machines.

**WordPress Web Developer & UI/UX Designer - SlidePot, Remote**

May 2020 - Nov 2021

- Designed web interface, branding & design system of over 78 various components & reduced projected development costs by 60%.

- Built and maintained our fully responsive website at <https://slidepot.com/> and secured it from over 750+ cyber-attack attempts.

- Drove an increase of 2,300+ returning users by executing user-driven product changes gotten through feedback surveys

## LEADERSHIP & VOLUNTEERING

**Association of Computing Machinery (ACM), South Dakota State University (SDSU), Brookings, SD**

Jan 2023 - Present

**President:** Jan 2023 - Present | **Hackathon Marketing Manager:** Dec 2023 - Present | **Secretary & CSC Tutor:** Jan 2023-Dec 2023

- Spearheaded the logo, branding & website for the HackSDSU hackathon – Mobilized a LinkedIn workshop for 25 students.

**BEST Robotics, South Dakota State University (SDSU), Brookings, SD**

2022 - 2023

**Referee,** Game Day: Nov 2023 | **Setup Volunteer,** Practice Day: Nov 2023 | **Volunteer,** Practice Day: Oct 2022