

Jalen Edusei

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EDUCATION

University of Georgia, Morehead Honors College, Athens, GA
Bachelor of Science, Computer Systems Engineering

May 2026
GPA: 3.65

SKILLS

Programming: Assembly, C, C#, C++, HTML, Java, JavaScript, Python, SQL, Verilog
Software & Web: Figma, Git, GitHub, Linux, Node.js, React Three Fiber, Tailwind CSS, Unity3D
Hardware & Systems: FPGA, Raspberry Pi, Sensors, Signal Processing, STM32 Microcontrollers

EXPERIENCE

Capital One, *Business Analyst Intern*, McLean, VA

June 2025 - August 2025

- Spearheaded development of a Notifications Preferences Center business case for CreditWise, streamlining communication management for over 60M users.
- Analyzed email campaign performance using SQL and Python, creating a valuation framework to quantify engagement and retention impact.

PROJECT EXPERIENCE

Personal Portfolio Website

Athens, GA

Full Stack Developer

January 2026 - present

- Architected an immersive 3D Progressive Web App using React Three Fiber, Framer Motion, and Tailwind CSS, maintaining a consistent 60 FPS across major browsers.
- Engineered a robust component architecture with Zustand for state management, synchronizing complex 3D overlays with a traditional web interface.

AnimalDot (Capstone Project)

Athens, GA

Embedded Systems Engineer

August 2025 - present

- Designing a contactless smart sensing bed using geophones and load cells to monitor animal heart rate and respiration.
- Developing a modular processing pipeline with analog signal conditioning and filtering to separate physiological signals from environmental noise.
- Architecting an embedded-to-mobile system for real-time data visualization and trend tracking via a companion mobile application.

MEMESat-1 Flight Software

Athens, GA

Software Engineer

March 2024 - December 2024

- Developed CubeSat flight software in C++ utilizing the NASA F Prime framework, optimizing embedded system performance on a Raspberry Pi Compute Module 4.
- Achieved 90% line coverage and 60% branch coverage through a comprehensive verification suite to ensure mission reliability.

Kitchen Chaos VR

Athens, GA

Game Developer

October 2025 - December 2025

- Built a multiplayer VR cooking game for Meta Quest 3 in Unity, implementing physics-driven interactions, VelNet state synchronization, and a REST API for an AI dish judge.

LEADERSHIP & INVOLVEMENT

National Society of Black Engineers, *Vice President*

May 2025 - present

- Lead a 100+ member chapter in strategic planning, previously increasing social media engagement by 40% as Telecommunications Chair.
- Coordinate logistics for national conventions and manage a centralized digital resource hub for internships and alumni networking.