

Jalen Washington

(980)-257-9395 | jswcodes@gmail.com | <https://www.linkedin.com/in/jalen-washington-b7079a225/>

EDUCATION

North Carolina Agricultural and Technical State University

Greensboro, NC

Bachelor of Science, Computer Science **Cumulative GPA: 3.84**

Expected Graduation May 2026

Relevant Coursework: *Data Structures and Algorithms, Discrete Structures, Database Design, Computer Program Design, Intro to Computer Programming, Internet Systems, Programming Languages.*

EXPERIENCE

Software Engineer Intern

May 2024 – August 2024

Microsoft

Redmond, WA

- Implemented an advanced data visualization application within the Microsoft SQL Server environment using C++ to capture all executed queries in real-time and export them as XEvent files for immediate further processing.
- Engineered a robust Python script to parse received XEvent files, leveraging precise parsing techniques and data transformation methods to extract relevant data and metrics. Integrated with Marquez for API requests, providing clear data visualization by organizing query execution metrics and delivering actionable info for in-depth analysis.
- Delivered a finalized live demonstration to the Microsoft Azure Data organization, showcasing the project's capabilities while demonstrating technical and communication proficiency through collaboration with engineers.

Software Engineer Intern

June 2023 – August 2023

Meta

Menlo Park, CA

- Developed a game stat integration platform delivering real-time performance metrics and enhancing player engagement. Provides stat tracking, live updates, and intuitive interfaces for analysis and decision-making.
- Implemented robust data integration through RESTful APIs and custom-built processing systems using PostgreSQL for efficient data storage, WebSockets for real-time updates, and D3.js for dynamic data visualization.
- Demonstrated technical proficiency through a final presentation to the React Apps team, featuring a live demonstration of the application's features and detailed performance analytics, followed by a comprehensive Q&A.

Google's Computer Science Summer Institute

July 2022 – August 2022

Google

San Jose, CA

- Participated in an intensive computer science summer program for high-achieving students.
- Completed an advanced project-based HTML/CSS and JavaScript curriculum taught by Google engineers.

PROJECTS

Instagrammy | *Python, JavaScript, React, Firebase, Yup, Formik, CSS, HTML*

- Developed an interactive mobile social media application using facial recognition algorithms for secure user authentication. Enabled users to log in, view and upload content, and interact with others on a secure platform.
- Implemented machine learning algorithms with OpenCV to analyze facial features and validate Grammy winners, using image processing and feature extraction techniques to determine if the user won a Grammy in the past year.
- Leveraged Google Firebase as a scalable, cloud-based NoSQL database to efficiently store user profiles, implemented hashing algorithms for secure password management, and enabled seamless user authentication for access control.

Amazonion | *JavaScript, React, CSS, HTML, Firebase, Firestore*

- Developed a full-featured e-commerce platform with robust user authentication, dynamic product browsing, real-time cart management, and secure payment processing for seamless checkout and transaction handling.
- Utilized the Stripe.js API to securely tokenize customer information, collect sensitive payment details using highly customizable Stripe Elements, and seamlessly process and accept payments through advanced API integrations.
- Implemented a secure user authentication system with Google Firebase, enabling account creation and safe shopping, while employing Cloud Firestore to efficiently collect, manage, and disseminate information.

SKILLS

Programming Languages: Python, C++, JavaScript, Java.

Technologies: Git, Github, HTML, CSS, React, Express, PostgreSQL, Sequelize, Firebase, GraphQL, Redis.

Interests: Chess, Weightlifting, Cycling. **Languages:** English (Native), Spanish (Intermediate).