Javon Matthews

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EXPERIENCE

Cloud Engineering Intern June 2024 - Present
Prudential | Newark, NJ

- Contributed to the migration of call center databases to modern **cloud**-based platforms, including **AWS** and **Genesys**.
- Engaged in **Agile Scrum** practices to ensure efficient project delivery and continuous improvement.
- Enhanced customer service capabilities through advanced cloud technologies, including **natural language processing** for call analysis and **machine learning** for user interaction.

Key Accomplishments:

- Assisted the development of cloud solutions that reduced licensing and operational costs, resulting in **annual savings of $2.5 million**.
- Deployed features using AWS services such as **Lex**, **Comprehend**, and **Redshift** to the call center system, enhancing functionality and user experience for **5,000+ daily users**.

EDUCATION

Virginia Tech | Bachelor of Science in Computer Science, Minor in Mathematics Expected Dec 2025

- GPA: 3.50/4.0 (Major GPA: 3.61)
- Honored on the **Dean's List** for three consecutive semesters by maintaining a GPA of 3.4 or above.

SKILLS

Languages: Java, Python, JavaScript, C, Assembly (RISC-V, x86 - Intel & AT&T), HTML, CSS, Bash, MATLAB
Development Tools: JUnit, Git, Bitbucket, Jira, AWS, SQL, Terraform, Postman, Flex Lexical Analysis, Bison Parser, Tableau

EXTRACURRICULARS

National Society of Black Engineers (NSBE)

- Advanced professional growth through collaborative skill development sessions and industry networking.

CS Squared Volunteers Club

- Spearheaded an educational initiative to impart fundamental computer science principles to school children.
- Facilitated the technological empowerment of senior citizens by holding weekly tech help sessions.

CS Careers Club

- Coordinated and helped lead resume workshops to bolster professional development for members.
- Attended career development events, including a Forbes 30 Under 30 session, to enhance industry knowledge.

Data Structures and Algorithms Club

- Participated in workshops and coding competitions to enhance data structures and algorithms skills.

PROJECTS

Fortune 500 Sustainability Tracker

- Developed a **full-stack** web application using **React**, **MySQL**, **HTML**, **Pandas**, **Node.js, Express.js,** and **Python** to analyze Fortune 500 companies for Green ETFs by calculating revenue to carbon emissions.
- Led a hackathon team using **Git** version control to create a sustainability tracker that evaluates the profitability and environmental impact of companies, facilitating informed investment decisions for sustainable portfolios.

RISC-V Compiler

- Engineered a **RISC-V** compiler utilizing **Flex** and **Bison** to translate high-level code into machine-executable instructions, significantly enhancing parsing efficiency and syntax analysis capabilities.

Spotify Playlist Algorithm

- Utilized array queues, comparators, and file parsing in **Java** to determine playlist compatibility for client-inputted songs.
- Relayed data to the client through a **GUI**. Successfully applied **JUnit** to test each method and edge case.