Brian Wisniewski

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EDUCATION

Clemson University, *Clemson, SC*   *May 2026*
Bachelor of Science in Computer Science   GPA 4.0/4.0
Management Information Systems Minor

EXPERIENCE

AST Spacemobile, *Lanham, MD*   *May 2025 – Aug. 2025*
Software Engineer Intern

- Developed a cloud-based automation pipeline in Python, Docker, and AWS Lambda to parse satellite telemetry binaries, enabling near real-time test reporting and reducing operator workload by 40+ hours per week across four production workstations.
- Built a microservice architecture around S3 and MinIO event triggers to automatically process and ingest spacecraft test logs, eliminating manual transfer steps and accelerating data availability for engineers.
- Contributed to flight software development, implementing a UART-based driver that integrated a new hardware component into the satellite bus, expanding functionality and supporting upcoming missions.

Domtar Paper Company, *Fort Mill, SC*   *June 2024 – Aug. 2024*
Software Quality Assurance Intern

- Designed and implemented custom automation pipeline resulting in over 10x speed improvement during data migration and eliminated over 1,000 hours of manual work.
- Identified key process changes within the migration procedure, cutting out over 50% of the migration workload.
- Successfully migrated over 1,000,000 test evidence documents from ALM and established new, equivalent test infrastructure in Panaya Test Dynamix.

Clemson University School of Computing*, Clemson, SC*   *Aug. 2023 – Dec. 2023*
Teaching Assistant for Introduction to C Programming

- Led bi-weekly laboratory sessions for a cohort of 45 students, ensuring structured and engaging learning environment.

PROJECTS

ShadeShift, *Clemson, SC*   *Dec. 2023*
IOT device to open and close twist-rod style blinds

- Engineered an IoT blinds automation system using an ESP-32 microcontroller, stepper motor, and custom 3D-printed housing to retrofit standard twist-rod blinds.
- Integrated with Home Assistant via the ESPHome framework to provide remote scheduling, automation, and mobile control.
- Implemented a dual-control interface: local hardware button for offline operation and cloud-based commands for smart-home integration.
- Designed a compact 3D-printed enclosure to protect electronics and ensure reliable long-term use.

SKILLS

Programming: Python (Prof.), C (Prof.), C++ (Prof.), Java (Inter.), JavaScript (Beg.)
Software: AWS (Lambda, S3, Rekognition), Linux, Docker, Pandas, TensorFlow, Git, Make, Power Automate, Postman

NOTABLE COURSEWORK

Data Science: EDA, Visualization, Supervised & Unsupervised Learning, Classification, CNNs, Neural Networks, TensorFlow
Software Engineering: Java, Design Patterns, Unit testing, Debugging, Documentation, Version Control, Agile, Scrum, SDLC
Network Programming: Client-Server Design, Socket APIs, HTTP, DNS, BitTorrent, TCP/UDP, Network Security, Wireshark

LEADERSHIP

Clemson Catan Club, *Vice President, Clemson, SC*   *Aug. 2024 – Present*

- Co-founder, managing all club funds, raising over $1,500 in first year on campus and reaching 200+ members

Clemson Sailing Club, *Financial Officer, Clemson, SC*   *Nov. 2024 – Present*