**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*