

Riley Morgan

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Education

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science in Electrical and Computer Engineering

Graduation: Dec 2024 | GPA: 3.9/4.0

Relevant Coursework: Operating Systems, Computer Networks, Embedded Systems, Data Security

Experience

Systems Engineering Intern | Cisco Systems | Summer 2023

- Automated router configuration validation using Python and Ansible
- Conducted network performance analysis and presented optimization strategies
- Supported team in testing firmware updates on embedded networking devices

Embedded Systems TA | Georgia Tech | Jan 2023 - Dec 2023

- Graded lab reports and final projects on microcontroller-based design
- Provided weekly office hours to assist students with ARM Cortex-M development

Technical Skills

- Embedded C, Python, Bash
- Ansible, Wireshark, Git, Make
- ARM, RTOS, UART, TCP/IP
- Raspberry Pi, STM32

Projects

Secure IoT Home Monitor

- Built an ARM-based system with sensors to detect motion and environmental changes
- Encrypted data sent via MQTT and implemented secure device provisioning

Soft Skills

- Systematic Thinking
- Time Management
- Peer Mentorship
- Adaptability