

# Aarav Chowbey

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## EDUCATION

### Clemson University

*Bachelor of Science in Computer Science*

Aug. 2024 – May 2027

3.47/4.0 GPA

## RELEVANT EXPERIENCE

### Summer Games Intern

*Booz Allen Hamilton*

Jun. 2025 – Aug. 2025

*Charleston, SC*

- Worked on a full-stack web-app utilizing AI to automate client insight generation, projected to reduce costs by \$4,000 per client while increasing contract win percentage.
- Built AWS infrastructure for application with supporting architecture diagrams.
- Integrated agentic AI features with Amazon Bedrock, OpenSearch, and retrieval-augmented generation to enhance agent responses.
- Developed a custom deployment script to navigate restricted AWS access and streamline environment setup.
- Led scrum activities for a 4-person team, coordinating sprints, standups, and deliverables.
- Tools Used: API Gateway, Lambda, DynamoDB, S3, EC2, Python, Javascript, HTML, CSS

### Undergraduate Researcher

*TigerSec Automotive Security Lab*

Jan. 2024 – Jan. 2025

*Clemson University*

#### Autonomous Vehicle Object Detection Research

Sept. 2024 – Jan. 2025

- Trained EfficientNet and YOLO models on Clemson's Palmetto Supercomputer, gaining experience with dataset preparation, high-performance computing environments, and Python-based model development.

#### Novel CAN Security Protocol Development

Jan. 2024 – Sept. 2024

- Co-developed a backward-compatible CAN security protocol for automotive ECUs.
- Implemented encryption and authentication mechanisms such as SHA256, with minimal latency impact on CAN message transmission.
- Validated protocol performance using oscilloscopes, logic analyzers, and embedded C++ scripts, resulting in 93% accuracy.

### Student IT Consultant

*Clemson Computing and Information Technology (CCIT)*

Sept. 2023 – Present

*Clemson University*

- Resolved 1,500+ hardware/software support requests via phone, chat, and in-person, maintaining top satisfaction scores.
- Utilized enterprise tools including Azure, Duo, Splunk, and Cisco ISE.

### Vice President

*Association for Information Systems (AIS)*

Jan. 2024 – Jan. 2025

*Clemson University*

- Led career development workshops and coordinated recruiting events with companies like Deloitte and Capgemini for 120+ student members.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, Javascript, HTML, CSS

**Tools:** Git/GitHub, VS Code, Linux

**Technologies:** Cloud Infrastructure (AWS), Systems & Networking, Embedded Systems, Machine Learning

**Certifications:** CompTIA Network+ (pursuing)

## AWARDS

**2025 CUhackit – Most Innovative Hack** – Computer vision for team project detecting baseball pitches.

**2024 NSF Research Grant** – Awarded NSF grant to continue research on embedded systems security.

**2023 Clemson Spark Challenge** – Secured seed funding to develop an e-bike prototype concept.

**2023 Hello World Hackathon – Best Hardware Hack** – Designed and modeled a programmable car using CAD and C++ as part of a four-person team.

**2023 VRC - Community Award Sponsored by Google – Finalist** – Recognized among the top ten teams internationally for community engagement.

**Palmetto Fellows Scholarship Recipient** – Awarded for academic excellence in South Carolina.