Aarav Chowbey

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Education

Clemson University Aug. 2024 – May 2027
Bachelor of Science in Computer Science *3.47/4.0 GPA*

Relevant Experience

Summer Games Intern Jun. 2025 – Aug. 2025
Booz Allen Hamilton *Charleston, SC*

- Developed an AI-driven full-stack web app 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 responses.
- Created a custom deployment script to navigate restricted AWS access and streamline environment setup for co-developers.
- Led scrum activities for a 4-person team, coordinating sprints, standups, and deliverables.

Undergraduate Researcher Jan. 2024 – Sept. 2024
TigerSec Automotive Security Lab *Clemson University*

Novel CAN Security Protocol Development

- 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 Sept. 2023 – Present
Clemson Computing and Information Technology (CCIT) *Clemson University*

- Resolved 1,500+ hardware/software support requests via phone, chat, and in-person, maintaining top satisfaction scores.
- Used enterprise tools (Azure, Duo, Splunk, Cisco ISE) to manage network access and troubleshoot system issues.

Featured Projects

StrikePhone | *Python (OpenCV), React Native/Expo, AWS (API Gateway, Lambda, S3)*

- Worked with a hackathon team to build a mobile app that utilized computer vision to detect strikes/balls in Blitzball with a React Native frontend and AWS backend
- Designed a real-time detection pipeline using API Gateway, Lambda, and S3

Clash of Clans Player Recommender | *React, Python, AWS (Lambda, DynamoDB, API Gateway, S3)*

- Developing a serverless full-stack web app that uses the Clash of Clans API to store clan war data and provide insights on top performing players.
- Implemented REST endpoints (Python, AWS Lambda, API Gateway) and used DynamoDB for storing clan war history.
- Building a React frontend (Vite + Material UI) to display player stats.

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+ (in progress)

Awards

NASA SpaceApps - Best Use of Art and Technology (2025)
CUhackit - Most Innovative Hack (2025)
Clemson Spark Challenge - Secured seed funding to develop an e-bike prototype concept (2023)
Hello World Hackathon - Best Hardware Hack (2023)
Palmetto Fellows Scholarship Recipient - Awarded for academic excellence in South Carolina.