

Dante Mallozzi

203-513-1385 | dante.mallozzi@hotmail.com | [linkedin.com/in/dante-mallozzi](https://www.linkedin.com/in/dante-mallozzi) | github.com/dantemallozzi05

EDUCATION

Clemson University

Clemson, SC

Bachelor of Science in Computer Science, Minor in Artificial Intelligence

August 2023 - December 2026

- **Relevant Coursework:** Machine Learning, Software Engineering, Advanced Data Analysis
- **GPA:** 3.5
- **President's List:** Spring 2024, Spring 2025
- **Dean's List:** Fall 2023, Fall 2024

EXPERIENCE

NSF Research Project, Clemson University

May 2025 - Current

NSF Undergraduate Researcher

Clemson, SC

- Contributed to **NSF-funded** research studying **infrastructure resilience** and **multi-agency disaster response** coordination in aftermath of **Hurricane Helene**
- Designed structured coding frameworks in **MAXQDA** to process **20+ qualitative interview transcripts**, identifying recurring themes across **utility, emergency management**, and NGO response actors
- Exported coded outputs into **Python pipelines** for normalization, aggregation, and statistical analysis across **rural and urban** affected regions

FABRIC Testbed Research

May 2025 - August 2025

Undergraduate Researcher

Clemson, SC

- Implemented a **reinforcement learning agent** to perform **dynamic bandwidth slicing** based on real-time latency feedback
- Designed a multi-node FABRIC topology (controller, edge, adversary) to simulate variable traffic and network stress
- Trained and evaluated a reinforcement learning policy for adaptive bandwidth allocation, minimizing SLA deviation measured via MAE and tolerance thresholds
- Automated experiment pipelines for reproducible evaluation and metric logging (**MAE**, SLA tolerance rates)

PROJECTS

911 Notebook | *React, Typescript, Python, AWS*

February 2026

- Built a full-stack AI-powered incident reporting tool at **CUHackit 2026**, competing in the **AWS sponsor challenge**.
- Integrated **7 AWS services: Transcribe** (voice-to-text), **Bedrock** (AI report generation), **Lambda**, **API Gateway**, **DynamoDB**, **Cognito**, and **S3**
- Implemented **real-time voice dictation** so first responders can dictate incident reports hands-free, with an **AI-chatbot** flagging missing info and suggesting corrections
- Designed a supervisor approval workflow enabling real-time report review, reducing documentation delays for EMS and Police

Expense Reimbursement API | *Java, SpringBoot, PostgreSQL*

February 2026 - Present

- Designed and implemented a **Spring Boot REST API** with **8+** endpoints for submission, approval workflow, and audit logging
- Implemented **role-based access** to separate employee and admin workflows and reduce fraud risk
- Integrated **PostgreSQL with JPA/Hibernate** for scalable persistence and relational modeling
- Developed **transactional service layers** and integration tests to enforce workflow invariants and prevent invalid state transitions

TECHNICAL SKILLS

Languages: Java, Python, SQL, C/C++, JavaScript, TypeScript

Cloud & Infrastructure: AWS (Transcribe, Bedrock, Lambda, API Gateway, DynamoDB, Cognito, S3)

Data & ML: Pandas, NumPy, PyTorch, Scikit-Learn, TensorFlow

Systems & Web: React, SpringBoot, OpenGL, Node.js, HTML/CSS

Strengths: Experimental Design, Statistical Reasoning, Systems Debugging, Technical Communication