

Alex Duncan

843-509-4694 | alfdun22@gmail.com | www.linkedin.com/in/alex22 | github.com/AFDtea | afdtea.github.io

EDUCATION

Clemson University

Bachelor of Science in Computer Science | *Double Minor in AI and Spanish*

December 2025

4.0/4.0 GPA

TECHNICAL SKILLS

Advanced: Python, C++, PyTorch, pandas, NumPy, Git/Github, VS Code, SQL, JavaScript

Proficient: HTML/CSS, Java, C, Postman, AWS, Supabase, PyCharm, IntelliJ, Matplotlib

EXPERIENCE

Web Development Researcher

May 2024 – Aug. 2024

Clemson University - Recommender Systems Research

- Developed the study's front end using React, JavaScript, HTML, and CSS, collaborating closely with a team of PhD students to create a user-friendly interface
- Developed a scalable database system that processed 9,000+ movie descriptions supporting high-volume data management using Python and OpenAI.
- Utilized the API backend through FastAPI ensuring seamless integration with the HTML front-end

Machine Learning Researcher

May 2023 – Aug. 2023

Clemson University - US Space Force Research

- Developed and optimized an ML model achieving 80% accuracy in identifying dangerous near-Earth objects
- Collaborated closely with a team of graduate students utilizing communication skills, PyTorch and TensorFlow for deep learning model implementation and optimization
- Authored a white paper on methodologies, results, and implications of Machine Learning as it relates to NEOs

Project Manager Intern

May 2023 – Aug. 2023

Marine Repair Services

- Designed and implemented strategies to enhance productivity, benefiting over 500 employees and optimizing operational efficiency with the use of problem-solving
- Assisted HR in coordinating manager communications and deploying a new safety training program to over 13 branches with the use of Excel and PowerPoint
- Developed a Python script to generate instant reports and streamline decision-making processes

Information Technology Intern

May 2021 – Aug. 2021

Charleston County School District

- Provided over the phone technical support in software, hardware, and other resources for over 6,500 employees
- Installed hardware for a training facility, enabling effective onboarding for 30 new employees
- Handled and resolved over 100 support calls, providing personalized assistance and ensuring user satisfaction

PROJECTS

ComicStrip | React, HTML, CSS, Flask, Python

March 2024

- Designed and implemented the frontend with React and CSS, creating a responsive and visually appealing user interface within 36 hours
- Contributed to prompt engineering by adapting API visual outcomes to meet project requirements and experimenting with different approaches to enhance performance

TigerChow | Javascript, Postman, AWS

Jan. 2024 – May 2024

- Developed and maintained the backend API for TigerChow by utilizing 4 AWS databases
- Created and tested 15+ API endpoints using Postman to ensure efficient communication between front-end and back-end services
- Created comprehensive API documentation and testing suite with 95% coverage

LEADERSHIP

Clemson Table Tennis Club Vice-President

Aug. 2022 – Dec. 2025

Clemson University

- Organized 18 club meetings and 4 events while leading the team as Vice-President to provide strategic direction and ensure smooth operations
- Developed Excel-based financial management system reducing administrative time by 60%