Alex Duncan

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EDUCATION

Clemson University Aug. 2022 – Dec. 2025
Bachelor of Science in Computer Science, Minor in Spanish — GPA: 4.0/4.0

TECHNICAL SKILLS

Languages: Proficient in Python, C++; Familiar with SQL, JavaScript, HTML/CSS, Java, C
Developer Tools: Git/Github, VS Code, Postman, AWS, Supabase, PyCharm, IntelliJ
Libraries: PyTorch, pandas, NumPy, Matplotlib

EXPERIENCE

Web Development REU 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
- Researched and compiled a comprehensive database of over 9,000 movie descriptions using Python and OpenAI
- Utilized the API backend through FastAPI ensuring seamless integration with the HTML front-end

Machine Learning REU May 2023 – Aug. 2023
Clemson University - US Space Force Research
- Developed a predictive machine learning model to identify dangerous near-Earth objects with 80% accuracy
- 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 databases deployed through AWS
- Created and tested over 15 API endpoints using Postman to ensure efficient communication between front-end and back-end services

INVOLVEMENT

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
- Used Excel for tracking membership data, event planning, and financial management