Davis Spradling

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Education

University of North Carolina at Charlotte | Charlotte, NC **Expected Graduation Fall 2024**
B.S. - Computer Science
Concentration: AI, Robotics, and Gaming *Cumulative GPA: 3.6*

Coursework: Data Structures & Algorithms, Intro to Artificial Intelligence, Database Design & Implementation, Research in Computer Science, Logic & Algorithms, Linear Algebra, Probability and Statistics, Calculus II, Computing Professionalism

Skills & Technical Tools

Languages: Java, Python, SQL, JavaScript, C++, HTML/CSS, PHP

Technologies: Git, Github, AWS (Cloud Practitioner Certified), Jupyter Notebook, MySQL, SciKit, SciPy, Numpy, MatplotLib, TensorFlow, VSCode

Experience

Student IT Technician | UNC Charlotte **August 2022 - Current**

- Responsible for troubleshooting any technological problems at the University of North Carolina at Charlotte that may include bugs in software or hardware problems. Made sure to be an effective communicator, leader, and role model for all staff.

Computer Engineering Intern | Power Relay Solutions **October 2022 - December 2022**

- In charge of programming relays and setting microprocessor-based protective relays for electric power generation, transmission lines, substations, distribution network, and industrial power systems all across the United States.

Projects

Non-Profit Seeker | Link: www.nonprofitseeker.epizy.com/main.html

- Hackathon (Hack @Davidson) award winning project “Technology for Best Use”
- Involves organizing data from Form 990’s inorder to easily show information about nonprofits through a search navigation with a rating algorithm for each nonprofit.
- Originally a static website done using Javascript and Python but later redone dynamically using MySQL and PHP.

Twitter Sentiment Ranking

- Python program that allows users to enter a tweet and using Natural Language Processing it will judge the tweet on whether it has a positive, neutral, or negative tone with the BERT model giving a rating using Scipy softmax of 0 to 1.

Neuse River Landscape Website

- Website built using HTML, CSS, and Javascript that acts as a website where users can both schedule and contact the owner to make it easy to schedule appointments for client and owner.

Learn Web3

- Website built using ReactJS that helps users to learn more about Web3 technologies such as blockchain, cryptocurrency, and cold storage wallets.

Undergrad Research

Medical Image Processing

- This project aims to address challenges in medical image processing using machine learning and deep learning, such as limited datasets, complex image features, high computational requirements, and the need for model interpretability and transparency.
- The focus is on utilizing the MONAI deep learning framework to auto-segment tumors, organs, and cells in MRI/PET/CT and pathology images.
- The project involves implementing ML/DL networks and models in MONAI, exploring its application in clinical settings, and evaluating its integration with clinic applications to enhance the clinical workflow.