Davis Spradling

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Education

University of North Carolina at Charlotte | Charlotte, NC **Expected Graduation Dec 2024**

B.S. - Computer Science

Concentration: AI, Robotics, and Gaming *Cumulative GPA: 3.75*

Coursework: Data Structures & Algorithms, Software Engineering, Intro to Artificial Intelligence, Machine Learning, Computer Operating Systems and Networking, Database Design & Implementation, Parallel Systems and High Performance Computing research, Logic & Algorithms, Linear Algebra, Probability and Statistics, Calculus II

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, Pandas, MatplotLib, TensorFlow, Docker, VSCode, Django, API, BootStrap, MongoDB, AutoCAD, SalesForce, Docker, Terraform, GitLab

Operating Systems: Linux, Windows, MacOS

Experience

Software Development Intern | Hexagon ALI **May 2024 - Current**

- Worked on the back-end of a farm server status page to help get the status of various builds across EAM. Utilized JavaScript and Python in order to consolidate updating build details as well as automating fetching server status.
- Worked on the front-end of an application farm status page to display the times of servers being online/offline throughout the day. This included building graphs through Plotly as well as displaying details related to farms in an organized and readable manner.
- Deployed multiple EC2 instances utilizing Terraform and setting up the bootstrap for minimal modification upon deployment.

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

- Design, program, and test substation HMIs, automation controllers and gateways, and network and serial communications equipment for over half a dozen clients all over the United States.
- In charge of programming relays and setting microprocessor-based protective relays for electric power generation, transmission lines, substations, distribution network, and industrial power systems.

Projects

Non-Profit Seeker

- 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.

NFL Career Longevity

- Machine learning project investigating the utility of the NFL Scouting Combine in predicting the matriculation and long-term success of prospective NFL players through both classification and regression models.
- Through feature engineering was able to uncover new features in the field that allow for higher accuracy among models.

Niner Social

- Social media app created for UNC Charlotte students developed with a 5-person team utilizing SCRUM framework and the MERN stack. Utilized standard software engineering practice such as daily stand ups and storyboard points for project management.
- Work as a software engineer on the team developing the login process for users to both login and sign up. Also worked on the timeline portion of the project to create a synchronous timeline of all posts by date uploaded.

Undergrad Research (High Performance Computing research)

Large Scale Entity Matching for theAdvisor

- Develop theAdvisor, a Python-based tool aiding scholars in discovering pertinent research papers and integrating data from diverse sources like DBLP, Microsoft Academic Graph, and Citeseer.
- Implement matching algorithms utilizing advanced hashing techniques and address data inaccuracies to improve accuracy and reliability of matched entities and confront data volume issues by employing large-scale processing like MapReduce.
- Goal to ensure efficient processing, matching, and integration of extensive data sets and elevate theAdvisor's capability to offer scholars a comprehensive and accurate research paper repository.