Evan Kurpiewski

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Summary of Qualifications

- Excellent verbal and written communication skills while working within teams of varying sizes.
- Understanding of Agile methodology with a focus on Scrum.
- Passion for software development and technology focusing on AI techniques.
- Motivated individual that is able to work independently with strong time management skills.

Related Experience

Graduate Researcher – Applied AI Lab | University of North Carolina, Wilmington, NC January 2021 - Present

- Researched AI and machine learning based methods alongside associated professors within respective fields.
- Created a fall detection system based on wearable data using an LSTM model and associated techniques.
- Led two undergraduate students assigned as researchers in performing AI research.

Graduate Teaching Assistant | University of North Carolina, Wilmington, NC August 2020 - Present

- Taught Python to undergraduate students during office hours.
- Graded Python assignments for teachers and mentored students on computer science problems.

Related Projects

- **Drunkard's Walk**: Built a functioning version of a drunkard's walk using object-oriented programming within Python via inheritance of the Turtle Graphics class into a new class built with a team of 7 people. This was proceeded by the use of UML modelling and software engineering concepts for the entire program.
- **Counter-Strike Database**: Led a small team of 3 in building a Java application using JDBC and a swing GUI interface connected to a mySQL database server for statistics in the video game: Counter-Strike: Global Offensive. This was proceeded by the construction of an ER diagram and relational schema for the database.
- **Roommate Matching Website**: Helped lead a team of 12 in building a website from the ground up with an HTML, CSS, and JS front end connected to a PHP and mySQL server for the purposes of matching students as roommates in a study abroad program within a mock Agile environment.
- **Machine Learning Twitter Sentiment Analysis:** Recreated and then modified previous work done on Twitter sentiment analysis using their API: Tweepy. Focused on the performance of the Support Vector Machine in this task while utilizing the machine learning library Scikit-Learn and a NoSQL database.

Education

University of North Carolina Wilmington — Expected -- December 2021
Master of Science in Computer Science and Information Systems
Current GPA: 4.0

Ohio University — 2012
Bachelor of Science in Communication
Digital Media: Special Effects, Games, and Animations
GPA: 3.6

Technical Skills and Tools

Python, Java, C, SQL, NumPy, Pandas, Scikit-Learn, Keras, TensorFlow, MatPlotLib, Scrum, PHP, JS, CSS, HTML, Git, GitHub, Docker, Agile Methodology, Object-Oriented Programming, Adobe Creative Suite, Microsoft Office Suite

Conference Papers

- E. Kurpiewski and I. Samokhvalov, "The Influence of Quality and Size of the Training Dataset on the Performance of the Support Vector Machine Algorithm." The International Conference on Computing and Machine Intelligence 2021, Istanbul, Turkey, 19-20 February 2021. Virtual.