Jared Schmidt

schmij12@tcnj.edu schmij12.github.io 856.906.7405 Southern NJ schmij12

QUALIFICATION SUMMARY

High-performing professional with years of experience developing high-quality software. Passionate in building strong relationships to help facilitate achievement. Confident in my ability to thrive in a fast-paced environment and leverage skills in design patterns, efficient programming, and agile development to enable team success. Committed to lifelong learning.

SKILLS AND INTERESTS

PROGRAMMING LANGUAGES: Python, C, C++, C#, Ruby, HTML/CSS, JavaScript, Java, Visual Basic, Postgres (SQL)
SOFTWARE/TOOLS: Git, Visual Studio, Linux / Unix, Matplotlib, NumPy, Pandas, Unity (2D/3D), MPI, Agile Development, Scrum, Slurm/HPCs, Android, UML, Windows, Bootstrap, Selenium
INTERESTS: Game Development, Artificial Intelligence / Machine Learning, Software Development

EDUCATION

The College of New Jersey (TCNJ) - Ewing, NJ Aug. 2019 - May 2023
Bachelor of Science in Computer Science
Overall GPA: 3.77 - *magna cum laude*
Dean's List for all semesters

TECHNICAL EXPERIENCE

Generalized Suffix Tree (GST) Research - MPI, C, Python Jan. 2023 - May 2023
Implemented a parallel processing (using MPI in C) version of generating GSTs, using a modified version of Ukkonen's algorithm from prior research
Developed function for merging GSTs using Python
When ran on TCNJ's HPC, experiments demonstrated speed improvements (8 nodes 41% faster than 1 node)
Collaborated and discussed with professor to move forward in our research

Machine Learning Research Team - Python, NumPy, Pandas Aug. 2021 - May 2022
Focus was finding the optimal point to stop the active learning process in a natural language processing context
Worked alongside professor and other student researchers to complete tasks
Implemented different text representations such as BERT into an existing Python codebase as well as used many different large datasets
Worked on developing a new open source codebase using modAL and scikit-learn since the existing codebase was difficult to modify

Environmental Litter Clean Up Simulation - C#, Unity Mar. 2023 - May 2023
3D Unity Game - Collaborated with two fellow TCNJ students
Player can pick up litter around a city map, featuring pedestrians, trash cans, and recycling bins
Environmental facts about the different types of litter such as whether it's recyclable or not, amount of time to decompose, and more

EMPLOYMENT

Selectron Solutions, *Part-time Production Member*, Marlton, NJ June 2021 - Sept. 2021
Defect testing of smart lights; assisted production manager on special projects

McDonald's Restaurant, *Crew Member*, Marlton, NJ Jan. 2018 - Jan. 2020
Trained new employees; worked in a team environment; cooked and processed customer's orders

ACTIVITIES

TCNJ Association for Computing Machinery (ACM)

TCNJ Association of Music Production and Discussion (AMPD)