

Jared Schmidt

✉ schmijl2@tcnj.edu 🌐 schmijl2.github.io ☎ 856.906.7405 📍 Southern NJ 🔄 schmijl2

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

Bachelor of Science in Computer Science

Overall GPA: 3.77 - *magna cum laude*

Dean's List for all semesters

Aug. 2019 - May 2023

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

Full-Stack Audio-Transcript Database Website - HTML/CSS, Javascript, Python/Flask

Mar. 2021 - May 2021

Collaborated with a team of four other students to create a full-stack audio-transcript database website

Utilized HTML, CSS, Flask, JavaScript, Python, and PostgreSQL for development

Designed and implemented a user-friendly web interface with tagging and search functionalities

Transcript viewing on the website with a link to the audio file on archive.org's website

Developed a login system for users/admins, as well as a system for leaving comments and feedback

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)