Derek Corniello

440.821.5281 | corniedj@mail.uc.edu | derekcorniello.github.io
LinkedIn: linkedin.com/in/derek-corniello | GitHub: github.com/DerekCorniello

EDUCATION

University of Cincinnati, Cincinnati, Ohio **Expected Graduation: May 2027**
Bachelor of Science, Computer Science - Master of Engineering, Software Engineering **GPA: 3.9**
Relevant Courses: Algorithms, Computer Networking, Web Apps and Hacking, Software Engineering, Computer Architecture

EXPERIENCE

Siemens Digital Industries Software – Milford, OH **January 2024 – Present**
Software Engineering Research and Development Intern

- Collaborated with 3 cross-functional teams to design, develop, and test dozens of innovative software solutions
- Developed two AI data pipelines and foundation models with 90%+ accuracy in prediction of different CAD data
- Engaged in continuous learning by actively researching new AI training and usage methodologies relevant to current projects
- Contributed hundreds of pages of documentation of projects, facilitating seamless knowledge transfer and collaboration
- Identified and resolved software bugs and issues, demonstrating a meticulous approach to debugging and troubleshooting

University of Cincinnati College of Engineering and Applied Science – Cincinnati, OH **August 2023 – Present**
Peer Teaching Assistant (Seasonal)

- Assisted in planning and delivering course materials to lead a productive classroom in active learning
- Fostered learning in over 75 students per semester through tutoring and mentoring outside of class
- Sustained trust with management to act with integrity and finish tasks efficiently and on time
- Cooperated with faculty and other TAs to frequently improve course delivery and assessment methods
- Managed student records, attendance, and grading systems, ensuring accuracy and confidentiality

PROJECTS

Pip Requirements Validator | reqinspect.com | Go, Vue.js, AWS

- A web tool for developers to validate all packages in a Python pip requirements.txt files
- Optimized and enhanced a Go REST API capable of handling concurrent requests with robust error handling and scalability.
- Created a responsive frontend design with Vue.js including dynamic responses and file upload

Development Environment | My GitHub | Arch Linux, Neovim, Tmux, Lua, Shell

- A customized, up-to-date Neovim and Dotfiles configuration for my development environment
- Implemented modular automation and customization to seamlessly integrate productivity tools
- Continuously refined configurations to integrate security practices, toolchain updates, and productivity features

Amanda Lynn Dashboard | My GitHub | Vue.js, JavaScript, Django, Python, SQLite

- A full-stack application that can be used to manage inventory and expenses
- Maintained all aspects of the project and updated features based on customer feedback
- Augmented Dockerized CI/CD flow, streamlining data logging and application performance, resulting in faster iteration

SKILLS

Languages: Python, Go, SQL, JavaScript/Typescript, HTML/CSS, C#, C/C++, PHP, Cypher
Development Platforms: Docker, Neo4j, SQLite, PostgreSQL, Apache, Vue.js, and Unity
Development Tools and Environment: Git, NeoVim, TMux, Linux, and Zsh

CERTIFICATIONS AND AWARDS

IEEE-HKN (Honor's Society) **October 2024 – Present**
Dean's List (Every Eligible Semester) **August 2023 – Present**
Cincinnatus Scholar (Every Eligible Semester) **August 2023 – Present**