Derek Corniello

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EDUCATION

University of Cincinnati, Cincinnati, Ohio **Expected Graduation: May 2027**
Bachelor of Science, Computer Science **GPA: 3.87**
Master of Engineering, Software Engineering
Relevant Courses: Algorithms, Computer Networks, Software Engineering, OS and Systems Programming, Computer Architecture

SKILLS

Languages: Python, Go, Rust, SQL, JavaScript/Typescript, HTML/CSS, C#, C/C++, PHP, Cypher
Development Platforms: git, neovim, tmux, Linux, Docker, Neo4j, AWS, SQLite, PostgreSQL, Vue.js, and Unity

EXPERIENCE

Siemens Digital Industries Software | Software Engineering Intern **January 2024 – Present**
- Collaborated with 3 cross-functional teams to design, develop, and test over 10 innovative software solutions
- Formulated 2 sets of AI data encoders and decoders with foundation models of 90%+ accuracy in prediction of CAD data
- Pioneered advancements in AI by implementing cutting-edge methodologies, enhancing project efficiency and accuracy
- Administered over 200 pages of documentation of projects, facilitating seamless knowledge transfer and collaboration

University of Cincinnati College of Engineering and Applied Science | Teaching Assistant **August 2023 – Present**
- Translated programming topics into digestible lessons, mirroring real-world software documentation and collaboration
- Mentored 75+ students per semester, providing technical guidance and debugging support to reinforce learning
- Established reliable and timely task execution by maintaining strong communication and proactively addressing challenges
- Coordinated with instructors and peers to refine course materials, aiding in curriculum updates and the creation of resources

PROJECTS

Pip Requirements Validator | reqinspect.com (20+ Daily Users) | Go, Vue.js, Amazon Web Services
- An efficient and comprehensive web tool for developers to validate and troubleshoot all packages in requirements.txt files
- Prepared a Go REST API capable of handling over 100,000 concurrent requests with robust error handling and scalability
- Implemented a dynamic frontend, enabling responsive uploads with less than 100 millisecond latency for seamless UX

gitcmd | gitcmd - crates.io (800+ Downloads) | Rust
- A customizable terminal designed to simplify and automate tedious git operations, improving workflow efficiency
- Developed a highly efficient application for automating git tasks in around 10 microseconds of processing time
- Engineered low-level workflows that innovate on git commands, integrating services and custom from traditional git

Amanda Lynn Dashboard | My GitHub | Vue.js, JavaScript, Django, Python, SQLite
- A full-stack custom application that enables seamless inventory and expense management for streamlined and efficient use
- Managed the entire project lifecycle, leveraging user feedback to deliver over 20 features that improved overall usability
- Augmented CI/CD flow with Docker, streamlining data logging and reducing developer time by 25%

AWARDS

Institute of Electrical and Electronics Engineers – Eta Kappa Nu Honor's Society **October 2024 – Present**
Dean's List **August 2023 – Present**
Cincinnatus Scholar **August 2023 – Present**

AVAILABLE FOR CO-OP: SUMMER 2025