Daniel Corcoran

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EDUCATION

Christopher Newport University, Newport News, VA.
B.S. in Computer Science, Cum Laude, December 2024.
- GPA: 3.53/4.0, Honors Program, Minors in Business Administration & Leadership Studies.
- Involvements: Sigma Phi Epsilon (VP of Member Development), Upsilon Pi Epsilon, IEEE Club, and American Red Cross Club, Student Ambassador, TEDx speaker
- Relevant classes: Software Engineering, Data Manipulation, Database Management, Applied Artificial Intelligence, Algorithms, Enterprise Management, Managerial Finance

WORK EXPERIENCE

Broadleaf Services: *Consultant*   Remote, 06/2024 – 12/2024
- Spearheaded the creation of ISO 9001-compliant quality management processes using Office 365, enhancing efficiency, consistency, and quality of deliverables, and successful certification.
- Collaborated with senior leaders to design and implement CMMI Level 3 processes within a DevOps environment, leveraging Azure DevOps for sprint planning and execution, directly contributing to the organization's successful CMMI certification.
- Facilitated company-wide adoption of new processes through training sessions, communication strategies, and performance measurement tools.
- Played a critical role in ISO and CMMI certification audits by developing artifacts, ensuring compliance, and achieving organizational certification milestones.

Christopher Newport University: *Student Ambassador*   Newport News, VA, 05/2023 – 12/2024
- Increased university applications by 33% through effective communication and engagement strategies.
- Conducted campus tours, simplifying complex information for prospective students and their families.
- Collaborated with a team of 50 ambassadors to execute events, demonstrating strong teamwork.

Xgility: *Intern*   Remote, 05/2021 –02/2022
- Conducted audits and provided project administration support for DoD contracts, ensuring smooth Azure and Office 365 implementations.
- Utilized ERP systems to track and resolve discrepancies, resulting in process optimizations that saved the company $40,000 through meticulous analysis and attention to detail.

PROJECTS

StudyGo: Academic Social Media
- Designed a 37-table MySQL database supporting account management, messaging, events, and notifications for a scalable user base of millions, processing data for thousands of classes using Python.
- Developed 50% of the web application, contributing to 100+ files with PHP, HTML, CSS, and JavaScript, including search, recommendations, and an event calendar.
- Collaborated in a team of 3 to deliver a functional MVP across web and Android platforms, enabling study groups, messaging, and course-based user connections.

Snake Reinforcement Learning
- Designed and implemented a reinforcement learning agent for the classic Snake game using Python, PyGame, and PyTorch, applying Deep Q-learning to optimize decision-making and gameplay strategies.
- Trained the agent to maximize score and performance, achieving measurable improvements in game completion rates and consistency over successive runs.

Space Invaders Recreation
- Developed Space Invaders in Java, using advanced data structures and GUI techniques.
- Exhibited attention to detail planning the design process and employed UML for comprehensive structuring.

SKILLS

Hard: Python, Java, C++, HTML, CSS, JavaScript, React, PHP, Git, MySQL, R, AWS, Linux, pandas, NumPy, Matplotlib, PyTorch, scikit-learn, Microsoft Office.
Soft: Leadership, Hard-working, Problem-solving, Detail-oriented, Communication, Adaptability, Teamwork, Organized, Critical Thinking.