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
- TEDx speaker: ["Divided We Talk, United We Grow"](#) | Student Ambassador

WORK EXPERIENCE

Jibez: *Software Engineer*   Remote, 02/2025 – Current
- Designed and built a static website using Next.js, TypeScript, React, and Tailwind CSS, gaining hands-on experience in modern frontend development and responsive UI design.
- Developing a Next.js full-stack web application with a PostgreSQL/Supabase backend, including custom database schema design, secure user authentication/authorization, and integration with geospatial and weather APIs like Leaflet and WeatherAPI.com.
- Gained experience in full-stack project planning and architecture, including project structure, component organization, API integration, and secure user management workflows.
- Transformed GeoNames city/country data into unique identifiers and stored lat/lng as geospatial points in Supabase for distance-based queries
- Parsed and cleaned JSON data to extract structured location info for efficient geospatial filtering in the app

Broadleaf Services: *IT 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.
- Played a critical role in ISO and CMMI certification audits by developing artifacts, ensuring compliance, and achieving organizational certification milestones.

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 using Agile methodology to deliver a functional MVP across web and Android platforms, enabling study groups, messaging, and course-based user connections.

Handwritten Digit Classification
- Built and trained a CNN using PyTorch to classify handwritten digits from the MNIST dataset
- Optimized model performance through hyperparameter tuning and regularization techniques, enhancing accuracy and generalization

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.

SKILLS

Programming: Python, Java, C++, TypeScript, JavaScript, SQL, PHP, R
Web & Frameworks: React, Next.js, HTML/CSS, Tailwind, Leaflet.js
APIs & Data Sources: REST APIs, WeatherAPI, JSON, GeoNames
AI/Data: PyTorch, scikit-learn, TensorFlow, Keras, pandas, NumPy, Matplotlib
Database/Tools: MySQL, PostgreSQL, Supabase, Git, AWS, Linux/Unix
Other: Microsoft Office, Excel, macOS
Soft: Leadership, Hard-working, Problem-solving, Detail-oriented, Communication, Adaptability, Teamwork, Organized, Critical Thinking.

LEADERSHIP

Vice President of Member Development: Sigma Phi Epsilon, Virginia Pi Chapter
- Led a cabinet of 15 members, delegating tasks and overseeing fraternity-wide development programs, including the Balanced Man Program, which focused on fraternity growth, personal development, and leadership training.
- Organized, planned, and communicated key brotherhood events for 70 members and collaborated with the university to coordinate speaker events.