Daniel V. Cowan

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EDUCATION

University of Pittsburgh   Pittsburgh, PA
B.S. **Computer Science**, minor in **History**   May 2019

RELEVANT COURSEWORK

Software Engineering   Software Quality Assurance
Programming Languages for Web Applications   Algorithm Design

PROJECTS

MovieGame   six-degrees-of-hollywood.appspot.com
- Led a development team in the full stack design, implementation, and deployment of a web-based game which tests a user's knowledge of movie casts
- Developed overall application layout, scrolling banner on landing page in CSS, endpoints which interface with TMDb (The Movie Database) API, and all portions of program which interact with Firestore database

JukeBox
- Developer on Scrum team that created a Spotify-interfacing web application utilizing the MVC design pattern and allows multiple users to collaborate on a common playlist
- Implemented getNextSong and playback functionality from the AngularJS frontend to the Python/ Flask backend

Lightweight Web Analysis
- Acted as Scrum Master for team which built a simple, lightweight web-based text and data analysis tool for a corporate customer
- Contributed to all functionalities of the application in JavaScript and HTML

Frogger AI
- Created a Python program which solves a Pygame implementation of the classic game of Frogger utilizing a Q-learning reinforcement learning algorithm

EXPERIENCE / AWARDS

United States Navy   March 2008 – March 2014
Work Center Supervisor / Submarine Engineroom Supervisor
- Managed a work center of nuclear-trained technicians to ensure the timely and correct completion of over 1,000 preventative maintenance items on over 20 nuclear plant systems
- Responsible for the supervision and training of nuclear technicians in the operation and maintenance of a naval nuclear power plant during system startup, shutdown, critical operation, and testing
- Twice awarded the Navy and Marine Corps Achievement Medal for "reliability under stress" and "superior performance of his duties" aboard the nuclear-powered fast attack submarine USS Providence

SKILLS

Languages
- Python, Java, Ruby, HTML, JavaScript

Technologies / Methodologies
- AngularJS, Flask, Git, Katalon, MiniTest, Google App Engine, Agile, Scrum