Connor Vucovich

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EDUCATION

Bucknell University, Lewisburg, PA   Graduation: May 2024
Bachelors of Science, Computer Science and Engineering, Mathematics Minor
GPA 3.9/4.0, **Summa Cum Laude,** Dean's List, Patriot League All Academic Honor Roll, Alpha Lambda Delta
Selected Coursework: Linear Algebra, Discrete Structures, Machine Learning Algorithms, Computer Organization,
 Algorithm Analysis and Design, Digital System Design, Computer Networks, and Operating System Design

WORK EXPERIENCE

CIS Secure, Ashburn, VA   June 2023-August 2023
Security Engineer Intern, CIS Mobile
- Spearheaded the completion of FedRamp authorization paperwork, namely a System Security Plan that aligned with NIST standards
- Worked with clients in resolving product issues and helped expand system to track requests and their completion
- Wrote documentation for flashing and device update protocols
- Assisted in the development of network filtration software

LEADERSHIP & PROJECTS

Trackman Machine Learning Algorithm   January 2021-Present
- Created a data processing algorithm that reads in pitcher trackman data and generates a user report in python
- Works with Matplotlib to generate plots of pitcher's movements, pitch distribution, location, and spin direction
- Generates HTML page with images and data for each pitcher with ability to sort data by data and other metrics
- Uses Pandas and Tensorflow to create neural network model to predict pitch outcomes
- Replaces 5k/year subscription software for the Bucknell Baseball Team

Wordle Dictionary Database   May 2023-July 2023
- Created a dictionary of five letter words using web scraping techniques to pull words from online books
- The GUI allowed for user feedback and a limited number of tries similar to mimic Wordle
- Implemented Object Oriented Design principles in the Java Code to separate the scraping aspect from the actual implementation of the game

Department of Biology Population Growth Simulator   April 2021-May 2023
- Logged daily scrums, managed project completion, and ensured equitable division of tasks Worked with biology department on an application to track the growth of a population of animals over time
- Allowed for an interactive GUI to change the reproduction rate, initial population, and for the ability to set predator specifies as well
- GUI displayed the movement of the individuals within the population over time

INTERCOLLEGIATE ATHLETICS

NCAA Division I Varsity Baseball   August 2020-Present
- Voted Team Captain Senior Year
- Devote approximately 40 hours per week to training, practices, travel, meetings, and games
- Managed local youth camps at the Miller Center, where I coordinated drills for the players

COMMUNITY SERVICE

Alpha Lambda Delta Honors Society   February 2021-Present
- Helped with multiple harvests of corn and vegetables at the Bucknell farm and Ard's farm in Lewisburg, PA

Mooresville Christian Mission   December 2023-Present
- Stocked pantry with food item and organized them based on expiration data and type
- Helped multilingual clients access pantry and ensured they were able to get the food they needed

SKILLS & INTERESTS

Computer: Python, Java, JavaFX, Git, Algorithm Analysis, RISC-V, RISC Hardware, Graph Theory, Discrete Math,
 Matrix Operations, Pandas, Tensorflow, Keras, Neural Networks, Network Analysis, Splunk, AWS, Linux, and C
Languages: Spanish (Advanced Level: Written and Spoken)
Interests & Achievements: 3x Junior National Champion Model Airplane Flier, Cybersecurity, Weightlifting, Water
 Skiing, and Large Language Model Design