Spencer Dee

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Education

Northeastern University, Boston, MA — September 2019 - Present
Khoury College of Computer Sciences
Candidate for Bachelor of Science in Computer Science with a minor in Economics — July 2023
Honors: **GPA: 3.71/4.00,** Dean's List (3 terms)
Relevant Courses: Object-Oriented Design, Theory of Computation, Computer Systems, Artificial Intelligence, Machine Learning & Data Mining, Money & Banking
Activities: Northeastern Unmanned Aerial Vehicles, Aerospace NU Project Karman

The Shipley School, Bryn Mawr, PA — September 2017 - June 2019
Honors: GPA: 4.22/4.00, Scholar Athlete Award
Activities: Engineering Club, Science Olympiad, Varsity Basketball, Animal Shelter Volunteer

Technical Knowledge

Languages: Java, C++, Racket, Python, C, JavaScript, Typescript
Systems: Windows, Ubuntu, Mac OS X
Software & Tools: Solidworks, IntelliJ, CLion, PyCharm, Eclipse, Matlab, SketchUp, DrRacket

Work Experience

Kythera Space Solutions, Bethesda, MD - Software Engineer Co-op — May 2022 - December 2022

- Built back-end microservices to provide data to satellite management software using MongoDB
- Implemented and tested REST APIs for budget calculation services in Java and C++
- Prepared asset data for display on a 3D map in CesiumJS

State Street Corporation, Boston, MA - Alpha Platform Intern — July 2021 - December 2021

- Collated, categorized, and standardized service agreements across Alpha clients
- Managed user access to Charles River Development testing environment

Projects

Northeastern Unmanned Aerial Vehicles - C++, Python — January 2020 - June 2022

- Collaborated to design behavior trees to allow drones to operate autonomously
- Adapted code to allow drones to use cameras to identify and get the position of ArUco markers

Reddit Automated Stock Analysis (RASA) - Python, scikit-learn — June 2021 - July 2021

- Developed a natural language processing program to analyze the sentiment of Reddit comments about the stock market
- Tested the effects of Reddit activity on stock performance using neural networks

Quoridor Board Game AI - Python — December 2021 - January 2022

- Created the board game "Quoridor" that can be played against another player or AI
- Implemented multiple AI methods, including alpha-beta pruning and Monte Carlo tree search

Interests

Basketball, Data Science, Engineering, Architecture, History, International Travel