Pete Smith

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Education

University of Maryland, College Park (Aug 2019 – Present)

- Bachelor of Science, Computer Science; Bachelor of Arts, History; Minor, Trumpet Performance
- Diploma Expected Dec 2024
- Cumulative GPA: 3.356 (May 2023)
- Relevant Coursework: CMSC421 – Intro to AI; CMSC420 – Advanced Data Structures; CMSC351 – Algorithms; CMSC330 – Organization of Programming Languages
- Member: History Undergraduate Association

Skills and Attributes

- Languages: Python, Java, C, Rust, Ruby, OCaml, HTML, CSS, JavaScript, SQL
- Frameworks: Bootstrap, jQuery, Plotly.js
- Tools and Environments: UNIX, VS Code, Eclipse IDE
- Coding Skills: Debugging, good code readability, version control
- Other Skills: Written and oral communication, teamwork, critical thinking, customer service

Programming Projects

Personal Website (HTML, CSS, JS) Personal Project, Jun 2023 – Present

- Designing a personal website (https://psmit.dev) with focuses on user experience and mobile readiness
- Using Bootstrap, JS, and Adobe's PDF Embed API to implement desired functionality

Pacman-Ghostbusters (Python) CMSC421, Spring 2023, UMD

- Implemented several functions relating to Bayes' Nets
- Functions involved calculating probabilities from given data, updating belief distributions across various conditions, particle filters, and joint distributions
- From UC Berkeley's CS188 Project 4

Reinforcement Learning (Python) CMSC421, Spring 2023, UMD

- Implemented Value Iteration (batch, async., and prioritized), Q-Learning, Epsilon-Greedy, and Approx. Q-Learning algorithms
- Specified values for Discount, Noise, Living Reward, Epsilon, and Learning Rate for simulations
- From UC Berkeley's CS188 Project 3

Work Experience

Web Development Intern (NASA PDS-SBN at Univ. of Maryland) (Jun 2023 – Present)

- Creating a comet statistic site for the NASA Planetary Data System-Small Bodies Node at UMD
- Designing frontend using HTML, CSS, JS, and various frameworks to create a seamless user experience
- Implementing backend using Python to create an automated script that pulls from multiple databases using HTTP requests and a Postgres Python library