Hasan E. Polat

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WORK EXPERIENCE

UNH InterOperability Lab – Durham, NH   **February 2022 - Present**

Non-Volatile Memory Express (NVMe) Test Developer

- Implemented and modified over 50 tests for IOL INTERACT™ Testing Software using Python and Bash.
- Helped firmware engineers worldwide to fulfill certification requirements for NVMe drives as outlined in NVMe specifications by offering customer support.
- Collaborated within a team following agile methodologies, actively participating in scrum meetings to discuss daily progress and issues.
- Directed test plan development process and experienced team-leading role.
- Contributed and pilot code reviews, maintaining the software tool and ensuring proper implementations of newly addressed tests.
- Developed expertise in many NVMe specifications, totaling over 700 pages, to increase understanding of NVMe for improved test development and customer support.
- Guided new employees and introduced them to the workplace, NVMe drives, specifications, and test plans.
- Received the IOL Nebula Award twice as a team, recognizing successful development processes.

PROJECTS

AI Implementation of Chinese Checkers   **March 2023 - May 2023**

Developer

- Developed a two-player Chinese Checkers game AI using Python, applying a minimax algorithm to achieve human-level intelligence.
- Collaborated with another colleague and demonstrated successful communication and teamwork.
- Used GitHub for coding collaboration and issue tracking for advanced project management.
- Authored a detailed technical final paper to demonstrate the outcome and the progress of the project.
- Presented the project to other colleagues, demonstrating effective skills in public speaking.

The Roads of The Sea   **September 2023 - Present**

Developer

- Created an outlier detection on spatial data, leveraging Geopandas and Shapely libraries to perform data analysis.
- Utilized QGIS to make visual debugging and observations on spatial data.
- Efficiently managed the project by working with other colleagues, attending meetings, and sharing a GitLab workspace.
- Played a leading role in helping team members adapt to coding collaboration on shared projects via Git.
- Recorded the project progress with highly detailed technical documentation.

TECHNICAL SKILLS

Python	Artificial Intelligence	OOP
C/C++	QGIS	Git/GitHub
Bash	MySQL	Jira
Java	Scrum	Bitbucket
Geopandas	Visual Studio Code	Agile
Shapely	JetBrains IDEs	Technical Documentation

RELATED COURSEWORK

Artificial Intelligence	Data Structures & Algorithms	Assembly Language Programming & Machine Organization
Machine Learning	Programming Language Concepts and Features	
Algorithms	Operating Systems Fundamentals	Database Systems
Object-Oriented Design and Development		Calculus II
Software Engineering		

EDUCATION

University of New Hampshire – Durham, NH   **Expected: May 2024**

Bachelor of Science: Computer Science   GPA: 3.52/4.00

- Honors Student: Fall 2020 – Spring 2023
- Dean's List: Fall 2020 (High Honors)
- Dean's List: Spring 2022 (Honors)

ACTIVITIES

University of New Hampshire – Durham, NH   **April 2023 - Present**

- Intramural Soccer