Pareesh Madan

madanp@uoguelph.ca ❖ (519) 362-1324 ❖ github.com/PareeshMadan ❖ pmadan.com

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C, C++
- **Technologies:** Docker, Git, GCP, SQL

WORK EXPERIENCE

Software Developer Intern **May 2024 – August 2024**
Bio-imaging Research Solutions Inc. Guelph, ON

- Developed a prototype neural network using TensorFlow for image classification to detect diseases in cow lymph nodes, trained on a dataset of over 3,500 annotated DICOM-formatted X-ray images.
- Designed and implemented a Python-based image format converter program, streamlining the preprocessing of DICOM images for training the neural network.

PROJECTS

Bazel Open Source Contribution ❖ github

- Introduced a retry mechanism to handle socket exceptions during repository downloads, enhancing reliability and reducing failure rates.
- Implemented two unit tests to ensure the functionality and robustness of the feature.

Personal Portfolio Website ❖ pmadan.com

- Utilized HTML, CSS, and JavaScript to implement responsive design principles to ensure optimal viewing across various devices, enhancing accessibility and user engagement
- Integrated dynamic elements using JavaScript to create interactive features, elevating the overall user interactivity and functionality of the portfolio

Pathfinding Visualizer ❖ github

- Utilized Java to create a JAR application visualizing algorithms A*, Depth first search, and Breadth first search
- Designed an intuitive user experience with features such as start and end point placement, obstacle creation, and algorithm selection, allowing users to customize and experiment with different scenarios
- Applied object-oriented design principles to create modular and extensible code, allowing for easy integration of new algorithms and features in future updates

Pokemon Team Builder ❖ pkmnteambuilder

- Utilized HTML, CSS, JavasScript, and Python (Flask) to integrate dynamic features, allowing users to easily select, customize, and visualize their Pokemon teams in real-time
- Incorporated API integration and a Database for retrieving and displaying detailed information about Pokemon types, providing users with comprehensive data for informed decision-making

EDUCATION

Bachelor of Computing, Computer Science (Co-op), Business Data Analytics Minor **September 2023 - Present**
University of Guelph Guelph, ON

- 91% Cumulative GPA
- Academic Scholarship
- Relevant Courses: Object Oriented Programming, Data Structures, Discrete Structures