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 Engineer Co-op **May 2025 – Present**
CIBC Toronto, ON
- Working closely with internal and external stakeholders to drive incident resolution, ensure compliance, and optimize end-to-end operational processes
- Contributing to system and network design discussions, infrastructure security audits, and automation initiatives to improve platform resilience and agility

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
- 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
- Used JavaScript to add interactive features, improving portfolio interactivity and functionality

Pathfinding Visualizer ❖ github
- 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 OOP to create modular and extensible code, allowing for easy integration of new features

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
- 90% Cumulative GPA
- Relevant Courses: OOP, Data Structures, Software System Development & Integration, Operating Systems