

Prithvi Paturi

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EDUCATION

Wilfrid Laurier University

Waterloo, ON

Bachelor of Science in Computer Science, Big Data Concentration — Minor in Math

Sept 2022 – Current

- **Relevant Coursework:** Machine Learning, Regression Analysis, Statistics & Probability, Linear Algebra, Artificial Intelligence, Calculus I/II/III

EXPERIENCE

CIBC Capital Markets

Toronto, ON

Software Developer Intern

May 2024 – Dec 2024

- Engineered full-stack applications in **Python, Java, JavaScript**, and **Azure**, improving **CI/CD** integration efficiency
- Automated **Airflow** pipelines for **ETL processing**, cutting runtime by **30%** and enabling faster analytics
- Spearheaded development of **Azure DevOps monitoring tool**, reducing deployment issue detection time by **70%**
- Enhanced API reliability by designing automated backend testing with **REST Assured**, reducing defect rates

Fresh Water Foods Inc.

Richmond Hill, ON

Web Developer

Jan 2024 – April 2024

- Designed and launched a responsive website, enhancing online presence for potential clients
- Worked directly with the owner to create a user-friendly interface to ensure easy navigation and product display
- Implemented responsive design using **HTML/CSS** and **Bootstrap** ensuring compatibility across various devices and improving user experience

PROJECTS

Connect-4 AI | *Python, Pygame*

- Built a fully interactive Connect-4 game with **Pygame**, allowing human vs. AI gameplay
- Implemented AI opponent using **Minimax** with **alpha-beta pruning** and dynamic board evaluation, achieving a **97%** win rate against baseline strategies
- Designed **heuristic board evaluation** functions for horizontal, vertical, and diagonal patterns to enable competitive AI decision-making

TrackME | *Python, JavaScript, Django*

- Developed a personal finance tracker with **Django** backend and **Chart.js** data visualization
- Applied **K-Means clustering** and **Isolation Forest** for anomaly detection, achieving 92% accuracy
- Integrated **News API** for personalized financial literacy recommendations

EXTRACURRICULARS

Laurier Grappling Club

Waterloo, ON

Graphic Design

Sept 2023 – Present

- Collaborated with club members to establish a cohesive visual identity, ensuring brand consistency across all materials
- Produced high-quality photographs to capture and showcase club events while creating engaging promotional videos, enhancing the clubs' online presence

TECHNICAL SKILLS

Languages: Python, Java, R, C/C++, JavaScript, HTML/CSS

Frameworks: React.js, Node.js, Django, Flask

Developer Tools: Jupyter Notebooks, GitHub, AWS, VS Code, Visual Studio, IntelliJ, Eclipse, Azure

Databases: MySQL, MongoDB, PostgreSQL

Libraries: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, PySpark