

Prithvi Paturi

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EDUCATION

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| Wilfrid Laurier University <i>Bachelor of Science in Computer Science (Big Data Systems Concentration) – Minor in Mathematics</i> | Waterloo, ON Sept 2022 – Current |
| • Relevant Coursework: Software Engineering, Databases I/II, Data Structures I/II, Operating Systems, Algorithm Design & Analysis, Computer Networks | |

EXPERIENCE

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| Clio <i>Software Developer Intern</i> | Toronto, ON Jan 2026 – Curr |
| • Shipped production React Native features across Clio's mobile ecosystem (Clio Manage (AI) and Clio Client), supporting high-traffic workflows used daily by legal professionals and their clients | |
| • Optimized React Native components and state management patterns , improving screen responsiveness and reducing performance bottlenecks across core user flows | |
| • Built and extended Ruby on Rails APIs powering AI-enabled and mobile features , enabling secure, low-latency communication between mobile clients and AWS-backed services | |
| • Investigated and resolved mobile and backend production issues , improving system reliability, crash resilience , and overall application stability | |
| • Drove features from design through deployment in a cross-functional agile team , contributing to architectural discussions, code reviews , and release readiness | |
| CIBC Capital Markets <i>Software Developer Intern</i> | Toronto, ON May 2024 – Dec 2024 |
| • Developed internal applications in Python, Java, JavaScript , and Azure that supported data integration and reporting workflows across teams | |
| • Built monitoring dashboards in Azure DevOps to track deployments and runtime health, cutting incident response time by 40% | |
| • Designed and implemented automated REST API testing with REST Assured , improving data reliability and QA coverage by 30% | |
| • Collaborated with engineering teams to integrate CI/CD workflows in Azure DevOps , streamlining deployment pipelines and reducing manual deployment effort by 60% | |
| Fresh Water Foods Inc. <i>Web Developer</i> | Richmond Hill, ON Jan 2024 – April 2024 |
| • Built and deployed 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

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| NBA Player Archetype <i>Python, Flask, Scikit-learn, Pandas, NumPy, Matplotlib</i> | |
| • Developed a machine-learning model that clusters NBA players by playstyle using advanced efficiency and rate statistics | |
| • Engineered normalized playstyle vectors and applied K-Means + cosine similarity to quantify stylistic similarity | |
| • Implemented PCA for dimensionality reduction and deploying a Flask web app that visualizes player networks and supports interactive similarity queries | |
| • Built modular preprocessing and inference pipeline , preparing for REST API integration and cloud deployment | |
| TrackME <i>Python, JavaScript, Django</i> | |
| • Created a personal finance tracker with Django backend and Chart.js data visualization | |
| • Applied K-Means clustering and Isolation Forest achieving 92% accuracy for anomaly detection | |
| • Integrated News API for personalized financial literacy recommendations | |
| Connect-4 AI <i>Python, Pygame</i> | |
| • Programmed a fully interactive Connect-4 game with Pygame , allowing human vs. AI gameplay | |
| • Implemented AI opponent using Minimax with alpha-beta pruning , achieving a 97% win rate against baseline strategies | |
| • Designed heuristic board evaluation functions for horizontal, vertical, and diagonal patterns to enable adaptive gameplay | |

TECHNICAL SKILLS

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

Cloud: Databricks, Apache Airflow, PySpark, AWS, Azure

Data & ML: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Scikit-learn

Frameworks: React, Node, Ruby on Rails, Django, Flask

Developer Tools: Git, VS Code, IntelliJ, Eclipse, Visual Studio

Databases: MySQL, MongoDB, PostgreSQL