

Prithvi Paturi

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EDUCATION

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

EXPERIENCE

Clio	Toronto, ON
<i>Software Engineer Intern</i>	<i>Jan 2026 – Curr</i>
• 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	Toronto, ON
<i>Software Developer Intern</i>	<i>May 2024 – Dec 2024</i>
• Developed internal applications using Python, Java, JavaScript , and Azure , supporting cross-team data integration and automated reporting workflows for operational and QA use cases	
• Built monitoring and deployment dashboards in Azure DevOps to track CI/CD pipelines and runtime health, reducing incident detection and response time by 40%	
• Designed and implemented automated REST API tests with REST Assured , validating data contracts and edge cases , increasing QA coverage by 30% and improving data reliability	
• 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.	Richmond Hill, ON
<i>Web Developer</i>	<i>Jan 2024 – April 2024</i>
• 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

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, TypeScript, R, HTML/CSS

Cloud: Databricks, Apache Airflow, AWS, Azure

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

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

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

Databases: MySQL, MongoDB