

# Prithvi Paturi

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## EDUCATION

### Wilfrid Laurier University

Waterloo, ON

*Bachelor of Science in Computer Science (Big Data Systems Concentration) – Minor in Mathematics*

*Sept 2022 – Current*

- **Relevant Coursework:** Software Engineering, Databases I/II, Data Structures I/II, Operating Systems, Algorithm Design & Analysis, Computer Networks

## EXPERIENCE

### Clio

Toronto, ON

*Software Engineer Intern*

*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

Toronto, ON

*Software Developer Intern*

*May 2024 – Dec 2024*

- 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

*Web Developer*

*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

### NBA Player Archetype | *Python, Flask, Scikit-learn, Pandas, NumPy, Matplotlib*

- 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 | *Python, JavaScript, Django*

- 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 | *Python, Pygame*

- 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