Prem Patel

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TECHNICAL SKILLS

Languages: C++, Python, Java, C#, JavaScript, TypeScript, HTML/CSS, SQL, Kotlin, Swift, Bash, R

Developer Tools: Git, Visual Studio, VS Code, Node.js, Jest, Yarn, Maven, Jenkins, Docker, Helm, GCP, Azure, AWS Frameworks & Libraries: .NET, React, Spring, Jest, Flutter, Flask, Firebase, Pandas, NumPy, PyTorch, Matplotlib

EXPERIENCE

Kinaxis

Software Developer Intern

Jan. 2025 - Dec. 2025

Ottawa, ON

- Contributed across server (C++), application (JavaScript), and agent/worker service layers (Node.js/TypeScript, Java), enabling enterprise clients to reliably run/debug embedded algorithms and create constraint-based optimization models in supply chain planning
- Designed guardrails across server and optimizer layers to prevent resource overuse, improving stability during large-scale runs; resolved lock contention and built a new logger to improve compute visibility
- Extended Jenkins AFT pipelines with unit, integration, and end-to-end tests; built a configurable C# performance testing framework to simulate diverse workloads and identify bottlenecks
- Took initiative to showcase **features** and **design outcomes** in cross-team **demos**, working as one of a few active developers in a small, fast-paced **Kanban** team with shifting priorities
- Recognized by a senior developer for consistently **detailed pull requests** and design explanations, improving team understanding and streamlining code reviews

Software Engineer Intern

Jan. 2024 - May. 2024

AutoTrader

Toronto. ON

- Developed and optimized Python services using Pandas and a REST API, accelerating OEM data processing by 8x for partners like Toyota and BMW
- Engineered **Azure pipelines** in **Python** to automatically generate and deliver monthly performance reports to **150+ dealerships**, querying data from **Redash** and managing reporting for select dealer groups
- Optimized data processing algorithms with the Tabula library, reducing manual effort, saving hours each month, and increasing data accuracy by up to 85%
- Led new hire **training**, mentoring a new full-time employee and interns, and improved team onboarding by promoting clear communication through effective **documentation** and **version control**

PROJECTS

NBA Analytics Dashboard (Full-Stack Web App) 🔗

May 2025 – Jul 2025

- Developed a full-stack Analytics Dashboard using React, Flask (Python), and PostgreSQL to visualize NBA player and team performance.
- Designed and optimized SQL queries, materialized views, and indices to support scalable retrieval
- Implemented role-based authentication and triggers for secure data management and audit logging

Barber Review Mobile App (Android/Kotlin) •

Sep 2024 – Dec 2024

- Developed an Android mobile app using Kotlin, Compose UI, and MVVM architecture to connect with barbers based on user-centric traits such as sociability and hairstyle specialty
- Integrated the Google Places API for barbershop data, along with Firebase authentication and cloud database storage for secure, scalable data management
- Followed Scrum sprints and documented user stories, using GitLab for version control and feature tracking

EDUCATION

University of Waterloo

Waterloo, ON

Honours Bachelor of Computer Science (BCS)

Sep. 2021 - Aug. 2026

• GPA: 3.8; Coursework: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Databases, Computer Architecture, Functional Programming, Machine Learning, AI

Wilfrid Laurier University

Waterloo, ON

Honours Bachelor of Business Administration (BBA)

Sep. 2021 - Aug. 2026

• Awarded President's Gold Scholarship (\$4,000) for academic excellence