

# NAKUL PATEL

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## EDUCATION

<b>Wilfrid Laurier University</b> <i>Bachelor of Computer Science (BCS) and Bachelor of Business Administration (BBA)</i>	<b>Expected Graduation: April 2027</b> Waterloo, ON
• Courses: Software Engineering, Artificial Intelligence, Operating Systems, Algorithms and Analysis I, Data Structures I and II, Machine Learning, Computer Networks, Database I, Discrete Structures, and Object-Oriented Programming	

## WORK EXPERIENCE

<b>Multiverse Computing — Machine Learning Engineer Intern</b>	<b>Sep 2025 – Dec 2025</b>   Toronto, ON
• Engineered a full end-to-end ML pipeline in <b>Python</b> —performing data cleaning, feature engineering, and chronological validation—to forecast player performance using <b>XGBoost</b> and <b>quantile regression</b> across 13 season-over-season targets.	
<b>Definity Financial Corp. — Automation Engineer Intern</b>	<b>Jan 2025 – Apr 2025</b>   Waterloo, ON
• Developed probabilistic forecasting models by training <b>Gaussian-based XGBoost regressors</b> and running large-scale <b>Monte Carlo simulations</b> to generate uncertainty-aware multi-year trajectories suitable for risk-style scenario analysis.	
<b>Greater Stouffville Chamber — Data Analyst Intern</b>	<b>May 2024 – Aug 2024</b>   Stouffville, ON
• Applied <b>K-Means clustering</b> to segment simulated outcome distributions and deployed interactive <b>Streamlit apps</b> visualizing feature importance, reliability scores, and clustered scenario paths for model interpretability.	
<b>Ripen Networks Inc. — Software Developer Intern</b>	<b>Jan 2023 – Apr 2023</b>   Toronto, ON
• Developed automated test scripts for mobile and web applications using <b>Java</b> , <b>JavaScript</b> , and <b>XML</b> , increasing test coverage by <b>35%</b> and reducing manual testing efforts by automating repetitive test cases	
• Integrated test suites into <b>CI/CD pipelines</b> with <b>Git</b> , reducing regression testing time by <b>40%</b> , enhancing deployment efficiency, and minimizing the risk of production defects through continuous validation and automated quality checks	
• Automated <b>JIRA</b> query extraction using <b>VBA</b> , streamlining sprint and release reporting by calculating key performance metrics and efficiency indicators, driving a <b>25% improvement</b> in release planning accuracy and cross-team visibility	

## PROJECTS

<b>Flux - Stock Predictor Model</b>   <i>GitHub</i>	<b>ReactJS</b>   <b>TypeScript</b>   <b>Tailwind CSS</b>
• Developed a full-stack ML application that predicts stock price movements using historical data and financial indicators, built with <b>ReactJS</b> and <b>TypeScript</b> , achieving improved accuracy through <b>time-series models</b> and <b>walk-forward cross-validation</b> with dynamic chart visualizations for users.	
<b>Paw'D - Doggy Care App</b>   <i>GitHub</i>	<b>Python</b>   <b>React Native</b>   <b>SupaBase</b>
• Working with a team to design a full-stack app with a <b>Python</b> backend and <b>React Native</b> frontend to enable dog owners to register their pets and receive automated vaccine reminders, featuring <b>notification systems</b> and <b>user authentication</b> .	

## CERTIFICATIONS

<b>JP Morgan Chase Co.   Software Engineering Virtual Experience Program</b>	<b>Jan 2025</b>
• Developed an interactive interface using <b>Perspective</b> and <b>Python</b> to provide live <b>stock price data</b> with a <b>live line graph</b> , improving data accuracy by <b>20%</b> and enabling real-time insights for informed investment decisions.	

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, VBA, SQL, HTML5, CSS, JavaScript, C, C++
<b>Developer Tools:</b> AWS, Azure, Docker, Git, Jira, Power BI, GitHub, GitLab, CircleCI, Gradle, Linux/Unix, JupyterLab
<b>Libraries/Frameworks:</b> ReactJS, NextJS, NodeJS, Supabase, FastAPI, Pandas, Scikit, Tensorflow, PyTorch, Streamlit
<b>Hard Skills:</b> Artificial Intelligence, Machine Learning, CI/CD Pipelines, RESTful APIs, Cloud Architecture, Deep Learning
<b>Interests:</b> Music, Chess, Gym, Basketball, Travelling, Superheroes, Video Games, Meditation, Hiking