

SWYAM PATEL

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Experience

Tech Director

ML Capital

October 2024 – Present

Remote (Toronto, ON, CA)

- Spearheaded the development of cutting-edge **technology solutions** (Python, TensorFlow, Docker), boosting operational efficiency by 40%.
- Orchestrated **cross-functional teams** to design and deploy a robust **machine learning platform**, reducing project turnaround time by 30%.
- Optimized **IT infrastructure** using Kubernetes, achieving a 50% reduction in downtime and elevating client satisfaction by 25%.

Cloud Engineer Intern

Mobiling

April 2024 – September 2024

Remote (Toronto, ON, CA)

- Engineered scalable **cloud infrastructure solutions** (AWS, Terraform), reducing operational costs by 30% and improving service delivery times.
- Migrated legacy applications to **cloud-native environments** (Docker, Kubernetes), improving uptime by 40%.
- Enhanced **resource allocation** with monitoring tools (Prometheus), increasing efficiency by 25%.

Projects

News Sentiment Analyzer | Python, BeautifulSoup, Matplotlib

January 2025

- Scraped trending news headlines from BBC News using **BeautifulSoup**, storing data in a structured format for analysis.
- Performed sentiment analysis using **TextBlob** to classify headlines as positive, neutral, or negative.
- Visualized results with **Matplotlib** and **WordCloud**, showcasing sentiment distribution and keyword trends.

AI Book Recommendation System | Python, Machine Learning, TF-IDF

December 2024

- Built a recommendation system using **TF-IDF vectorization** and **cosine similarity** to suggest books based on user input.
- Scraped book data from Goodreads using **BeautifulSoup**, extracting titles, authors, and descriptions.
- Optimized web scraping with **ThreadPoolExecutor**, reducing data extraction time by 50%.

Finance Tracker | Kotlin, React, Spring Boot, Chart.js

November 2024

- Developed a full-stack finance tracker using **Kotlin**, **React**, and **Spring Boot**, enabling users to track expenses and budgets.
- Implemented data visualization with **Chart.js** to provide users with clear insights into financial trends.
- Designed secure authentication workflows, ensuring data privacy and robust user access controls.

Technical Skills

Languages: Python, Java, C, Kotlin, Swift, JavaScript, SQL.

Technologies/Frameworks: TensorFlow, Flask, Docker, Kubernetes, React.js, Node.js, MongoDB, TailwindCSS.

Education

New Jersey City University

Bachelor of Science in Computer Science

Jersey City, NJ

Expected Graduation: May 2026

- **Concentrations:** Artificial Intelligence, Modeling, and Simulations.
- **Related Coursework:** Advanced Computing with Python, Object-Oriented Programming, Statistics for Data Analysis, Discrete Mathematics, and Foundations of Artificial Intelligence.