HENIL PATEL

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Bachelor of Computer Science student – Major in Big Data Computing

Technical Skills

- **Languages & Programming**: Python, C++, Go (basic), JavaScript (Node.js, TypeScript, React), Java, SQL, Bash
- **Backend & Systems**: Microservices, RESTful APIs, Distributed Systems, Scalable Backend Architecture, Socket Programming, PostgreSQL, MongoDB, MSSQL.
- **Frontend Framework & Tools**: React, TypeScript, .NET, ASP.NET, Express.js, D3.js, AngularJS (basic), Flask (basic), Responsive Design.
- **Testing & Automation**: Unit Testing (PyTest, Jest), Test-Driven Development (TDD), Regression Testing, Scripting Automation (Bash, Python), ETL Pipelines.
- **DevOps & Deployment**: Docker, GitHub Actions, CI/CD Pipelines, AWS (EC2, Lambda), Azure DevOps, Linux (Ubuntu), Heroku.
- **Computer Science Fundamentals**: Object-Oriented Programming (OOP), Algorithms, Data Structures, Operating Systems, Complexity Analysis
- **Data Tools & Analysis**: Pandas, NumPy, Excel (Pivot Tables, VLOOKUP), Google Sheets, data cleaning workflows, SnowFlake, Tableu, PowerBI.
- **Data Processing & Automation**: Web Scraping (BeautifulSoup, Selenium), scripting automation, ETL pipelines.
- **Tools & Collaboration**: Git, Jira, Agile Methodology, Cross-functional Teams.

Professional Experience

Software Developer Intern – Harpa Global   **(May 2025 - Present)**
- Developed scalable microservices in **Node.js**, **SQL**, and **MongoDB**, supporting distributed systems and real-time data workflows.
- Applied **object-oriented design** and embedding-based logic (MiniLM-L6-v2) to optimize recommendation and inference pipelines.
- Contributed to backend integration with AI-driven services, collaborated with cross-functional teams to align design with functionality.
- Built and maintained **CI/CD pipelines** using **GitHub Actions** and implemented **unit testing** with **Jest** to ensure system reliability.
- Actively participated in **Agile sprints**, retrospectives, and cross-team code reviews to ship production-quality features.
- Refactored backend APIs debugged system-level issues, and enhanced performance and scalability across service modules.

Skills: Node.js, MongoDB, SQL, Python microservices, CI/CD (GitHub Actions), Jest, Agile, AI-assisted systems, Microservices, REST APIs, Distributed Systems.

Machine Learning Intern - Deep Learning - SMART Centre   **(January 2025 – May 2025)**
- Developed deep learning pipelines using **PyTorch** for visual data processing and OCR automation in backend workflows.
- Optimized model performance using **TensorBoard** and deployed **Dockerized pipelines** for scalable inference.
- Built modular **Python microservices** to support backend automation, experiment tracking, and system reliability.
Integrated OCR tools (EasyOCR, OpenCV, pytesseract) to enhance AI-driven document understanding at scale.

Skills: Python, PyTorch, OCR (EasyOCR, OpenCV, pytesseract), Docker, TensorBoard, Microservices, Containerization, Experiment Tracking, Backend Automation.

Software Developer Intern - Vortex Telecom   **(May 2024- Dec 2024)**
- Built predictive ML pipelines (**ARIMA**, **LSTM**) for time series forecasting, achieving over 93% accuracy in test environments.
- Developed middleware using **SNMP/DNP3 protocols** for real-time telemetry and distributed IoT data synchronization.
- Designed and deployed full-stack applications using **Node.js**, **React**, and **MongoDB Atlas**, with cloud hosting on **Heroku**.

Skills: Python, Time Series Forecasting, Node.js, React, MongoDB, IoT Protocols (SNMP/DNP3), GitHub Actions, JMeter, SonarQube, Full-Stack APIs, Deployment Pipelines, Performance Testing.

Project Experience

SalesSync – Full-Stack CRM Web App   (March-April 2025)
React Native, .NET (C#), SQL Server
Built a secure CRM system with **role-based access control**, lead tracking, and dynamic reporting.
Designed scalable backend logic and **data pipelines** for real-time filters, dashboards, and exports.

Rohlik Inventory Forecast – Kaggle Contest   (August 2024)
React Native, Python (Flask), Google Gemini AI
Built forecasting models (**ARIMA**, **LSTM**, **Random Forest**) to optimize grocery supply chains.
Tuned RMSE metrics and improved **pipeline performance** through data-driven experimentation.

Education

Bachelor- Computer Science (Hons.) – Conestoga College, WLOO   (Expected Graduation: August 2026)