

Divyam Banga

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TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, HTML/CSS, Dart, SQL, Java

Frameworks & Libraries: React, Node.js, Flask, FastAPI, Pydantic, Jest, Pytest, Cypress, Flutter, Firebase, Pandas, NumPy, Matplotlib, Plotly, ChromaDB

Developer Tools: Git, Linux, Azure, Docker, Jira, Confluence, VS Code, Tableau, Power BI, Claude Code

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science – Management Engineering; Computing Specialization

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, OOP, Databases, AI

EXPERIENCE

Eurolink Logistics

Windsor, ON

Software Developer Intern

May 2025 – Sep 2025

- Built internal tools in **Python** and **SQL** to automate shipment tracking, eliminating manual entry across **3** departments and saving roughly **15** hours/week
- Developed and maintained **REST API** endpoints to streamline reporting workflows, improving data accuracy by **~40%**
- Delivered features within **agile** sprint cycles using **Jira**, writing **unit and integration tests** to validate data before deployment

Stangs for a Change

Windsor, ON

Technical Operations Lead

Apr 2024 – Jun 2025

- Automated budget tracking and report generation using **Excel VBA macros**, reducing manual work by **50%**
- Prepared data-driven sponsor reports and coordinated fundraising events, helping raise **\$13K+** for local causes

PROJECTS

Cortex | *CxC AI Hackathon Winner (\$1,000, 1st/95+ teams)* | *FastAPI, MCP, SQLite*

[GitHub](#) | Jan 2026

- Built a 3D visual memory layer for AI chats using **FastAPI**, **Python**, **JavaScript** with **hybrid search** (keyword + semantic), reducing repeated prompts by over **60%**
- Designed a **FastAPI** backend with **SQLite** and a custom **MCP server** to summarize and feed chat history into LLM responses
- Developed an interactive **JavaScript/HTML/CSS** frontend to visualize conversation clusters and navigate interactions
- Collaborated in a team of **3** using **Git** branching and pull requests, delivering the full project in a 36-hour sprint

AskMyData | *Python, Flask, ChromaDB, Ollama, Pandas, Plotly*

[GitHub](#) | Nov 2025

- Built a full-stack RAG-powered app letting users upload datasets (CSV, JSON, PDF) and query them in natural language
- Designed a **Flask** backend with **Pandas** and **ChromaDB** for data parsing, vector storage, and semantic search via Ollama
- Integrated **Plotly** and Matplotlib to auto-generate visualizations from user queries across **4+** file types

Scouting App | *Flutter (Dart), Firebase, Firestore, Chart.js*

[GitHub](#) | Sep 2024 – Jun 2025

- Built a cross-platform app for FRC Team 4903 using **Flutter** and **Firebase** to collect real-time match data from **10+** events
- Synced data across devices via **Firestore** and visualized insights through charts, improving scouting by **30%**

My-Farm | *NASA Space Apps Winner* | *Python, Flask, MySQL, Bootstrap*

[GitHub](#) | Oct 2024

- Developed a web app integrating **NASA Earth API** data and soil moisture readings to visualize ideal planting zones
- Built a chatbot and simulation tools using **Python/Flask** with a **MySQL** backend and Bootstrap frontend

ACTIVITIES

Waterloo Data Science Club

Waterloo, ON

Full Stack Developer

Sep 2025 – Present

- Developed and maintained club web apps using **React** and **Node.js**, building reusable components and API routes
- Wrote unit and integration tests with **Jest** and **Pytest**, shipping features within the team's agile workflow