

Devansh Jain

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my-personal-website

Education

Wilfrid Laurier University

Bachelor of Science in Computer Science | Big Data Concentration

Expected: April 2027

Waterloo, Ontario

- Relevant Courses: Data Structures and Algorithms, Databases I, Software Engineering, Object Oriented Programming

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, TypeScript, SQL, MATLAB, Bash, Kotlin, Go, LaTeX, VBA

Developer Tools: VS Code, IntelliJ, Jupyter Notebook, Git, GitHub, Docker, AWS, Azure, Kubernetes, Claude, Copilot, Cursor, Figma, SOLIDWORKS, AutoCAD, Prophet, Plotly, Postman, Ubuntu, WSL, Redis, HAP 4.9

Technologies/Frameworks: Django, React, React Native, Node.js, Express.js, Nest.js, Firebase, Flask, PostgreSQL, MongoDB, PyTorch, Tailwind CSS, Tastypie, NumPy, Next.js, Pandas, Streamlit, Spring Boot, Vercel

Experience

Software Engineering Intern

May 2025 – August 2025

Jain Consultants

Toronto, Ontario

- Built a **custom system tool** for engineering specification documents, enabling **12 engineers** to save **60+ hours** weekly.
- Developed **Python** automation scripts to streamline **HVAC** design workflows by using **Pandas** for excel manipulation and integrating data using **Numpy** reducing manual input errors by **50%** and accelerating project delivery times
- Applied **load/heat simulation** modeling (**HAP 4.9**) to optimize energy system performance in **3+ high-rise buildings**
- Engineered flexible ductwork systems using **AutoCAD** and **DuctSizer** sizing components to deliver specified airflow
- Designed **Dockerized** heat-loss simulation scripts in **HAP 4.9** using **Python** for reproducible environment workflows.
- Collaborated with senior consultants to review architectural plans and identify structural inefficiencies, contributing to a **10%** reduction in project revision time.

Software Engineering Intern

January 2024 – April 2024

OneDrug

Toronto, Ontario

- Created reusable frontend components with **React**, **TailwindCSS**, and **Figma** for a scalable lead-gen platform.
- Built real-time filtering for **1,200+** providers using **React** and **GraphQL** significantly improving UI response time.
- Automated **SQL synchronization** and **data pipelines** eliminating **30+** hours/month and boosting data consistency.
- Built scalable **backend APIs** using **Node.js** and **MongoDB** handling **5,000+** daily search queries, cutting user wait time by **40%**.

Software Engineering Intern

September 2022 – December 2022

Accumine Technologies

London, Ontario

- Containerized **20%** of company projects into **Dockerized cloud environments**, to accelerate deployment testing
- Created **6+** detailed **2D/3D layouts** of sensor and equipment configurations in **AutoCAD**, supporting physical-to-digital mapping for digital twin systems across **3 manufacturing facilities** to allow real-time monitoring.
- Used **MATLAB** to simulate and optimize mechanical systems in digital twin models.
- Conducted **signal characterization** and measurement analysis using **MATLAB** and **oscilloscopes** to validate analog circuit behavior across operating conditions.

Projects

WluNest | *React, Tailwind CSS, Node.js, Express.js, MySQL, Vercel*

January 2025

- Built backend API routes with **Node.js**, **Express.js**, and MySQL to support **100+** listings and roommate profiles.
- Developed listing and roommate pages with **React** and **Tailwind CSS**, used by **40+** users during internal testing.
- Contributed **150+ commits** with code reviews and CI workflows across backend and frontend modules.
- Integrated image upload and contact forms to streamline user-generated content and housing visibility.

Django RESTful Api | *Django, Tastypie, Python, Docker, Postman, Sqlite*

September 2024

- Developed a lightweight **RESTful API** using **Django** and **TastyPie**, with CRUD operations and **dockerization**
- Implemented a full-stack data handling with **SQLite** database, supporting seamless data persistence.
- Tested and validated **API** functionality using **Postman** for reliability and consistent performance across all endpoints.
- Deployed **REST API** to Azure Kubernetes Service (**AKS**)

Handwritten Digit Recognition with CNNs | *Python, TensorFlow, NumPy, AWS EC2, MNIST*

April 2024

- Engineered a **CNN** in **Tensorflow** using **Python** to perform large-scale classification on the **MNIST** dataset.
- Accelerated model training time from **6 hours** on CPU to **20 minutes** on GPU, achieving a **15x** improvement.
- Optimized model training through **GPU acceleration, batch normalization, and ReLU activation layers**, enabling faster convergence and improved stability compared to CPU-only execution.
- Achieved **98%+** test accuracy on **MNIST** in **10,000 iterations**, validating robust generalization and efficient hierarchical feature extraction on unseen digit images