

MANAV CHAUDHARY

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EXPERIENCE

Platform Engineer Intern

Sep. 2025 – Jan. 2026

Interac Corp.

Toronto, ON

- Built ingestion pipelines to route AWS logs into Splunk for cloud observability and DevOps monitoring
- Supported enterprise-wide GitHub migration, enabling secure code hosting and streamlined developer workflows
- Developed observability infrastructure with monitoring, logging, and alerting (using Splunk and AWS tools), improving system reliability and reducing mean time to detect (MTTD) incidents by **25%**
- Maintained Infrastructure as Code (IaC) using Terraform to automate provisioning and standardize AWS resources

Software Engineer Intern

Jan. 2025 – May 2025

Government of Ontario (MCCSS)

Toronto, ON

- Enabled online diabetic supply requests for **276K+** users by building an Angular and TypeScript feature
- Built a document upload feature using Angular and REST APIs, increasing monthly uploads by **34%**
- Released a private npm package by building a custom Angular paginator used across **10+** tablemodules
- Worked in Agile sprints via Azure DevOps, contributing to CI/CD delivery and team code reviews

Software Engineer Intern

May 2024 – Sep. 2024

Government of Ontario (MAG)

Toronto, ON

- Built search/sort functionality and redesigned UI for Deputy Judges Database using React, C#, and SQL
- Implemented update/delete functionality using Visual Basic, ASP.NET, and SQL, cutting data entry time by **28%**
- Developed an interactive map using JavaScript and Google Maps API to display **50+** court locations

EDUCATION

Centennial College

Toronto, ON

Associate's in Software Engineering - Artificial Intelligence | GPA: 4.35/4.5

Expected Graduation, Dec. 2026

Focus Areas: Machine Learning, Data Structures, Algorithms, object-oriented programming, Full stack Development

PROJECTS

Live Aquaria | *React JS, Three.js, Node.js, Express, MongoDB, Leaflet API, Gemini API*

- Built an AI-powered web application that identifies fish species in real-time using Google's Gemini API
- Created an interactive 3D aquarium using React and Three.js to display user catches visually
- Integrated Leaflet API to visualize a global fishing map showcasing user catches across regions
- Built a robust backend with Node.js, Express.js, and MongoDB Atlas for secure, scalable data management

Traffic Fatality ML Model | *Python, Flask, Toronto KSI Dataset*

- Built a predictive model using Toronto Police's KSI dataset (**18K+ records**) achieving an **80%** fatal recall rate.
- Engineered a data preprocessing pipeline with feature engineering, SMOTE balancing, and ensemble modeling.
- Deployed a Flask-based API to deliver real-time collision fatality predictions from processed accident-level data.

NLP - Email Spam Detector | *Python, Scikit-learn, NLP, TF-IDF, Naive Bayes*

- Built an NLP-based binary classification model to detect spam messages using TF-IDF and Naive Bayes
- Preprocessed and vectorized **5,000+** samples using CountVectorizer; tuned hyperparameters to boost accuracy
- Performed hyperparameter tuning with 3-fold cross-validation to optimize performance, achieving **91%** accuracy

TECHNICAL SKILLS

Coding Agents: OpenCode, Claude Code, Codex, Cursor

Languages: Python, Java, C++, C#, SQL, JavaScript/TypeScript

AI/ML: Scikit-learn, TensorFlow, PyTorch, Hugging Face, Transformers, Pandas, NumPy

Backend & APIs: Node.js, Express.js, Flask, Spring Boot, ASP.NET, REST APIs

Cloud, DevOps & Tools: AWS, Terraform, Git, Azure DevOps, CI/CD, Linux, Postman

Frontend & Databases: Angular, React, Oracle Database, MySQL, MongoDB