

AMAN HIRAN PUROHIT

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EDUCATION

Sheridan College, Trafalgar Campus, Oakville

Expected Graduation Dec 2025

Computer System Technology Advanced Diploma - Software Development & Network Engineering

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Data Science, Data Communications & Networking

SKILLS

Languages *Proficient* JavaScript (3yrs) · Python (2yrs) *Intermediate* SQL (1yrs) · Java (2yrs) *Beginner* Swift (1yrs) · C (2yrs)
Software AWS · GCP · LangChain · Docker · Kubernetes · ReactNative · JupyterNotebook · iOS · Bootstrap · Git · Bash · Next
Certifications AWS Certified AI Practitioner · Python - UoTf Certifications · React - Codecademy

EXPERIENCE

Associate Software Engineer, SUNLIFE ASSURANCE COMPANY, Toronto, ON

May 2025

- Incoming Summer 2025 Intern | Generative AI Strategy & Delivery Team

Software Engineering Resident, HEADSTARTER, New York, NY

Aug 2024 - Present

- Built 14+ machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed 5+ neural networks in Python and 11 apps in Typescript on AWS/Vercel with dev and production environments
- Implemented llm-chaining, hyperparameter tuning, fine-tuning on 10+ LLM models controlling for latency & Accuracy
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers
- Created 221+ commits on GitHub with 7-day deadlines, getting a Career Capital increase of 20% from the start date

Software Developer, ZEUTY, Waterloo, ON

Apr 2024 - Jan 2025

- Designed frontend architecture using ReactNative, TypeScript, Native Wind and Redux, enabling seamless scalability
- Implemented a state management system to handle user authentication, ensuring authorized access using AWS Cognito
- Initiated knowledge-sharing sessions to upskill teammates, resulting in a 20% improvement in development efficiency

Software Development Tutor, SHERIDAN COLLEGE, Oakville, ON

Sep 2024 - Dec 2024

- Modernized course curriculum by integrating cloud computing tools such as AWS & Notion, enhancing engagement by 23%
- Conducted 500+ sessions on Programming, computer Architecture, improving scores by 33% compared to the previous term
- Provided tailored support and accommodations to meet diverse accessibility needs, enhancing learning outcomes
- Designed hands-on materials using Jupyter, VS Code, GitHub, and Notion, boosting project completion of 500+ students

Software Engineer, SKILL SQUIRREL, Mississauga, ON

Jan 2024 - Apr 2024

- Enhanced portal usability by implementing interactive front-end features using React, increasing user engagement by 25%
- Achieved a 97% defect-free rate by leading rigorous testing and debugging of production features using git and docker
- Delivered 15+ feature tickets within sprint deadlines, collaborating with cross-functional teams to align project goals

PROJECTS

Sheridan Swiftie Club Portal | Published full-stack app with 372+ monthly users (~40 hours) - [Link to Project](#) *Sep 2024 - Present*

- Designed and implemented a fully functional website using Next.js, Node.js, OAuth & Supabase for secure user access
- Built an interactive trivia (RAG) model using Pinecone & Meta Llama 2, boosting engagement by 326% with 2,100+ visits

Customer Churn Prediction Model | Team Project & Open-source (~30 hours) - [Link to Project](#)

Oct 2024 - Nov 2024

- Developed a model using XGBoost, RandomForestClassifier, SVC, and Logistic Regression to predict high churn probability
- Integrated with personalized retention emails generated using llama via Groq, achieving 89% accuracy
- Deployed on Render with API capabilities for custom data predictions, optimized with GridSearch and Random Search

Credit Card Fraud Detection Model | Published AI-App (~30 hours) - [Link to Project](#)

Sep 2024 - Sep 2024

- Created a fraud detection system using XGBoost and RandomForestClassifier, visualized results with Plotly and Matplotlib
- Integrated llama on Groq for real-time probability explanations using Meta Llama 2, improving user trust and transparency

Brain Tumor Classification | Full Stack with LLM (~25 hours) [Link to Project](#)

Oct 2024 - Nov 2024

- Used neural networks in Python to classify 1000 MRI scans into 3 types of brain diseases with custom CNN model
- Generated multimodal MRI reports for neurosurgeons in under 200MS after image classification, construction & training

Financial Analysis & Automation with LLMs | Full Stack with LLM (~15 hours) [Link to Project](#)

Sep 2024 - Oct 2024

- Built an advanced stock search feature using HuggingFace embeddings to deliver relevant results based on user queries
- Integrated real-time stock data retrieval via yfinance to provide metrics and historical trends for informed decision-making

ACTIVITIES

Open Source Contributions

Oct 2024 - Present

- Improved cross-browser compatibility in Open Library (Internet Archive) using web.py, Docker, and CSS
- Reduced layout issues by 30%, enhancing the experience for 4.6M+ monthly visitors [PR Link](#) ~ (20 hours)
- Built diagnostic tools for Puter, enhancing alert debugging for 29K+ developers and 300K+ applications [PR Link](#) ~ (15 hours)

Hackathon Enthusiast

Jan 2023 - Present

- Won the Nosu AI Hackathon for the best AI use, built in under 5 hours, competing against 1,482 participants | [Link to Project](#)
- Won 3 tracks for everydayai solution using Nebius AI & Google Map API, competing against 184 participants | [Link to Project](#)
- Completed a blockchain development challenge using Motoko during a hackathon, earning recognition through a contest win

AI Blogs - Authored data-driven AI blog posts spotlighting emerging technologies and industry advancements

Oct 2024 - Present

President, Sheridan Swiftie Club - Managing a team of 9 executives while collaborating with 3 charities & trust funds

Oct 2023 - Present

Peer Mentor - Proactively resolved student concerns to ensure a seamless learning environment for new students

Sep 2023 - Feb 2024