AMAN HIRAN PUROHIT

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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 ML Engineer Associate · AWS Certified AI Practitioner · Python - UofT Certifications · React - Codecademy

EXPERIENCE _____

Software Engineer - Generative AI, Strategy & Delivery, SUNLIFE ASSURANCE COMPANY, _Toronto, ON_   _May 2025 - Present_
- Developing LLM query categorization to analyze user sessions effectively for more than **208,000+** queries using **Python, AWS**
- Implementing async LLM orchestration using **AWS Bedrock, Sagemaker, Lambda, Python, Terraform, Splunk** and **Dynamo DB**
- Conducted metrics reporting for the Inner Source Generative AI tool, receiving more than **60,000+** queries each week

Software Engineering Resident, HEADSTARTER, _New York, NY_   _Aug 2024 - Apr 2025_
- 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 Engineering Learning Assistant, 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, & improved 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 the 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 _____

Boilerplate CLI - 156+ Weekly Users | Full Stack with LLM _(~25 hours)_ - Link to Project | heyboilrplate.com   _Apr 2025 - Present_
- Published an npm package to streamline project boilerplate scaffolding with more than **55+** users on the waitlist pre-launch
- Integrated AI using **GROQ** inference to increase app development efficiency by 44%, **156+** weekly downloads in the first week.

Hackville Access+ | Developing a full-stack app (_for more than **500+** users_) - Hackville Access+   _May 2025 - Present_
- Implemented an admin portal using React - **Next.js, Node, Firebase,** switched to the Innersource system built from scratch
- Implemented Audit trail, QR Checkin and sponsor access for vetting hackers, managing workshop & event registrations

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 Tumour 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 a custom **CNN** model
- Generated multimodal MRI reports for neurosurgeons in under **200MS** after image classification, construction & training

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

VP of Technology, Hackville - Building and scaling the portal while co-organizing Sheridan's flagship Hackathon   _Apr 2025 - Present_
Peer Mentor, Student Affairs - Mentoring more than 60+ students at Sheridan College, Oakville   _Oct 2023 - Present_

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