

AMAN HIRAN PUROHIT

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SUMMARY

- Adaptable across tech stacks, with hands-on experience in **GenAI**, Data Science, & Cloud (AWS, GCP, Docker, Kubernetes)
- Proven track record of driving impact at scale, Delivered large-scale impact, including **\$1M+** cost savings initiatives
- Strong problem-solver with expertise in optimizing latency, scalability, and efficiency across AI pipelines and full stack
- Led teams in hackathons and projects under tight deadlines, mentored peers and developers to boost collaboration
- Growth-oriented technologist, Pursuing advanced **AI/ML** certifications and contributing to open source

SKILLS

Languages JavaScript (3yrs) · Python (2yrs) · SQL (1yrs) · Java (2yrs) · Swift (1yrs) · Typescript (2yrs) · C# (1yrs)

Software AWS · GCP · LangChain · Docker · Kubernetes · ReactNative · iOS · Bootstrap · Git · Bash · Next

Certifications: AWS Certified ML Engineer Associate · AWS Certified AI Practitioner · AWS Data Engineer (In-progress)

EXPERIENCE

Software Engineer - Generative AI | [SUNLIFE ASSURANCE COMPANY](#), Toronto, ON **May 2025 - Present**

- Developed LLM categorization framework for metrics reporting, defined **8+** KPIs to capture efficiency gains & impact
- Implemented asynchronous LLM orchestration using **AWS Bedrock, Lambda, Python, Terraform, Splunk** and **DynamoDB**
- Conducted metrics reporting for an InnerSource Generative AI tool handling **60,000+** queries weekly
- Led an organization-wide improvement initiative, proposing a solution projected to save **\$700K–\$1.2M** annually
- Evangelize the potential of **GenAI** internally through presentations on the value generated to senior leadership

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 & **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 - Oct 2024**

- 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 with AWS Cognito
- Initiated knowledge-sharing sessions to upskill teammates, resulting in a **20% improvement** in development efficiency

Learning Assistant - Software & Network Engineering, SHERIDAN COLLEGE, Oakville, ON **Sep 2024 - Dec 2024**

- Modernized course curriculum by integrating tools such as **AWS Skills Platform & Notion**, engagement increased by **23%**
- Conducted **500+ sessions** on Computer Engineering, Statistics improved scores by **33%** compared to the previous term
- Provided tailored support and accommodations to meet diverse accessibility needs, enhancing learning outcomes

Software Engineer, SKILL SQUIRREL, Mississauga, ON **Jan 2024 - Apr 2024**

- Enhanced portal usability by implementing an accessible design using **React**, and increased 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

ADDITIONAL EXPERIENCE

Vice President, Technology | [Hackville' 26](#) | (9th Iteration of Canada's First College Run Hackathon) **Feb 2025 - Present**

- Building and scaling the portal while co-organizing Sheridan's flagship Hackathon
- Leading a team of 9 Developers and 4 Designers for the Hacker Application form, Exclusive sponsor access portal

President, Sheridan Swiftie Club | **500+** Monthly visits - [Sheridan Swiftie Club](#) **Oct 2023 - Present**

- Lead Evermore Fund Campaign that supported more than **3+** local food banks & charities during the Eras Tour Toronto
- Developed a website for a community of **113** members with a monthly traffic of nearly **500+** visits

Art Hive Mentor | Sheridan College **Oct 2022 - Aug 2023**

- Supported Accessible students in art therapy activities to boost confidence and promote inclusivity

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Peer Mentor - Student Leadership | [Peer Mentor Program](#)

Apr 2025 - Present

- Lead LeaderSHOP to cultivate leadership at the workplace and campus, boosted program traction by hosting 1:1
- Mentored more than 50+ students and faculty to cultivate robust conflict management styles

Club Member | Google Developer Club

Oct 2023 - Present

- Participate in annual events and supported workshops like LeetCode 101, MLops & Data Science

PROJECTS

Boilerplate CLI - 156+ Weekly Users | (~25 hours) - [Link to Project](#) | heyboilerplate.com

Apr 2025 - Present

- Published an npm package to streamline project boilerplate scaffolding with more than 55+ users on the waitlist
- Integrated AI using GROQ inference to increase app development efficiency by 44%, 156+ weekly downloads

Hackville Access+ | 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 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 model using XGBoost, RandomForestClassifier, SVC, & 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 & RandomForestClassifier, visualized results with Plotly and Matplotlib
- Integrated Llama on Groq for real-time probability explanations using Meta Llama 2, improving user trust & 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](#)

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
- Won 3 tracks for the everydayai solution using Nebius AI & Google Map API, competing against 184 participants
- Completed a blockchain development challenge using Motoko during a hackathon, earning recognition via contest win

Blog Writer | [Aman Writes](#)

Apr 2025 - Present

- Writing Blogs on personal experiences, passion for AI and current trends in Software Engineering

Mengabyte Mentor | Sheridan College

Oct 2023 - Present

- Supporting Incoming students in the Technology Program setup and guiding them through co-ops & academic semester

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

GPA: 3.74/4