

AMAN HIRAN PUROHIT

GTA | [LinkedIn.com/in/amanhiranpurohit](https://www.linkedin.com/in/amanhiranpurohit) | [GitHub.com/purohitamann](https://github.com/purohitamann) | amanpurohit.com

Software Engineer with hands-on experience in GenAI, AI research, open-source contribution, and leading full-stack projects

EXPERIENCE

Research Engineer - AI, VLM, LLM | [CENTRE FOR APPLIED AI](#) | [STEREOLOGIC](#), Oakville, ON **Jan 2026 - Present**

- Researching, designing, and evaluating vision-language & large language models for screenshot-based data extraction
- Conducting applied research on multiple open-source models from Qwen & OpenAI, improving the IoU accuracy to 89%

Software Engineer - Generative AI | [SUN LIFE ASSURANCE COMPANY](#), Toronto, ON **May 2025 - Aug 2025**

- Led an organization-wide app improvement initiative, proposing a solution projected to save \$700K–\$1.2M annually
- Designed LLM-powered data transformation framework to process 60K+ weekly queries across enterprise environments
- Built vectorization pipelines with Titan embedding & K-Means, reducing 17K+ categories to 30 clusters (88% reduction)
- Delivered 8+ KPI dashboards via Splunk and DynamoDB to track GenAI adoption, efficiency gains & business impact

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
- Created 221+ commits on GitHub with 7-day deadlines, getting a Career Capital increase of 20% from the start date

Learning Assistant - Software & Network Engineering, [SHERIDAN COLLEGE](#), Oakville, ON, **Sep 2024 - Dec 2024**

- 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

PROJECTS

Avocado - Affordability Intelligence Engine (ML + GenAI) | (~18 hours) - avocado.amanpurohit.com **Hackathon Win**

- Developed a weighted ensemble model (XGBoost + Logistic Regression) achieving 91% classification accuracy
- Engineered end-to-end system architecture using FastAPI (Dockerized), Cloud Run autoscaling, and a Next.js frontend

Paragon CLI - {GenAI as a Service} | Team Project & Open-source (~24 hours) - [Link to Project](#) **Hackathon Win**

- Developed an open-source CLI tool to deploy & scale GenAI agents on AWS EKS, saving 50+ hours of manual ClickOps
- Automated containerized GenAI agent orchestration on AWS with Kubernetes & Docker for seamless system integration.

Boilerplate CLI - 1047+ Downloads | (~25 hours) - [Link to Project](#) | heyboilerplate.com

- Published CLI with AI-powered code scaffolding (GROQ inference), achieving 156+ weekly users and 55+ waitlist signups
- Built an AI-integrated project scaffolding CLI that boosts development efficiency by 44%, with 156+ weekly downloads

LEADERSHIP EXPERIENCE

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

- Architected and scaled a full-stack hackathon platform supporting 3000+ active users' check-ins and registration
- Led a team of 6 Developers and collaborated with 8 Product designers to deploy the platform in production

EDUCATION

Sheridan College, Trafalgar Campus, Oakville—GPA: 3.73/4

Sep 2022 - Dec 2025

Associate Degree—Computer System Technology, Advanced Diploma—Software Development & Network Engineering

University of Calgary - Sustainable Development Solutions Network Canada

Jan 2026

Certificate—2026 Youth Can Sustain (YCS) Certificate, Sustainable Leadership Certificate

SKILLS

Languages/Libraries: Javascript · Python · SQL · Java · Swift · Typescript · C# · Pandas · Matplotlib · Tensorflow

Technologies: AWS · GCP · LangChain · Docker · Kubernetes · ReactNative · iOS · Terraform · React · Redis · Kotlin

Certifications: AWS Certified [ML Engineer Associate](#) · AWS Certified [AI Practitioner](#) · AWS Data Engineer (In Progress)

Open Source Contribution: [Puter](#)—enhancing debugging for 29K+ developers, 300K+ applications.

[Internet Archive](#)—enhanced user experience for more than 4.8+ million monthly visits by integrating dynamic view links