

ASHAN PRAPAHARAN

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TECHNICAL SKILLS

Languages: Java, Python, SQL, Go, Bash, HCL, YAML, JavaScript, TypeScript

Cloud: AWS (Amazon Web Services), Azure, GCP, Terraform, Ansible, Docker, Kubernetes, Grafana, Vault, GitLab

AI & Data: Bedrock Agents, Agentic Workflows, RAG, MCP, Ollama, Hugging Face, n8n, LangChain

Tools: Linux, Git, Jira, Slack, Proxmox, JavaDB, MySQL, Apache CloudStack, Supabase, DataDog

Certifications: AWS Cloud Practitioner (CLF-C02), Terraform HashiCorp Certified: Associate (003)

EXPERIENCE

Software Engineer Intern

May 2026 – Present

Rivian

Vancouver, BC

- Reduced **AI-powered** build failure diagnosis time by **68%** by engineering a deterministic fast path in **Python** that pattern-matches **CI failure** signatures, bypassing a full **Claude** agent investigation and parallelizing **GitLab** trace and **Datadog** log fetching, whilst packaging the AI diagnosis into a ready-made prompt for coding agents.
- Improved developer productivity by building an **active firmware release branch management** system, replacing a stale, manually-updated Confluence page, giving **500+** TPMs and developers a single source of truth.
- Accelerated codebase onboarding by **35%** through developing an interactive dependency graph visualizer for a monorepo with **870+** pipeline jobs and **1,500+** dependencies from **GitLab CI** into an explorable graph.
- Integrated **Claude** into **GitLab CI**, delivering automated code review on merge requests and severity based ranking on suggested fixes directly, increasing developer productivity and reducing reviewer time by **25%**.

Software Engineer Intern

May 2025 – August 2025

Ciena

Ottawa, ON

- Architected a **LLM-integrated log analysis pipeline** for Apache CloudStack, summarizing system logs into human-readable diagnostics and reducing debugging time by **60%**, enhancing observability and operational insight.
- Eliminated **85%** of manual operational workflows by building **Python** and **Bash** automation tooling integrated with **Ansible** and **Terraform** to orchestrate deployments, backups, and structured rollback procedures.
- Led **Kubernetes** adoption across cross-functional teams to containerize testing environment for Ciena products, telemetry and data services, standardizing infrastructure, enhancing deployments and reducing overhead by **25%**.

Software Engineer Intern

May 2024 – August 2024

MPAC (Municipal Property Assessment Corporation)

Toronto, ON

- Reprovisioned **AWS Resources** to deliver **\$1000+** in cost savings across production systems.
- Developed **Terraform** modules to automate the creation and migration of **50+** EOL **EC2** instances from CentOS 7 to Amazon Linux 2023, automating **AMI** creation, tagging and rollback verification for consistent environments.
- Deployed Python automation with **Boto3** to audit, refactor, and validate **AWS IAM** policies, detecting and notifying on overprivileged access while reducing policy count by **45%** and enforcing least-privilege guarantees.

Software Engineer Intern

May 2023 – Aug 2023

InnSys Incorporated

Toronto, ON

- Designed a conversational backend service using **Python** and REST APIs to collect, validate, and structure customer contact data from website interactions, while increasing inbound sales outreach by **25%**.
- Migrated **40+** domains from unmanaged on-premise servers to a virtualized infrastructure, automating **DNS** and **PHP-MySQL** configurations to improve maintainability and achieving a **99.99%** uptime during the transition.

SOFTWARE & AI PROJECTS

Inference Gateway | *Go, Redis, Prometheus, OpenTelemetry, Jaeger, Grafana, Docker, Kubernetes*

- Architected an **11-provider LLM gateway** with five routing strategies, circuit breaker, **65% Redis cache hit rate**, and a four-stage RAG pipeline across **10K+ document chunks** supporting **100+ concurrent requests**.

IAM Sentinel | *Python, AWS, Anthropic, Boto3, Typer*

- Engineered an **AI-powered Python CLI** using **Claude** to analyze **AWS IAM** roles, produce role-level risk scores, and generate actionable least-privilege recommendations, reducing manual IAM audits by **35%**.

EDUCATION

Western University

London, ON

Bachelor of Engineering in Software Engineering (Co-Op)

Expected Graduation: Dec 2027

- Data Structures and Algorithms, Operating Systems, Networking, Microprocessors, DBMS, OOP