

Aryan Khurana

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EDUCATION

Computer Programming and Analysis

Seneca Polytechnic, Graduated with High Honours, GPA: 4.0/4.0

North York, ON

January 2022 – December 2024

RELEVANT WORK EXPERIENCE

Site Reliability Engineering Intern

Royal Bank of Canada (RBC)

Toronto, ON

September 2023 – April 2024

- o Led automation initiatives by creating **Ansible** playbooks for Windows/Linux server restarts, alerting (**Moogsoft/ServiceNow**), and certificate renewals, adopted by 20+ SRE teams.
- o Spearheaded migration from **Ansible Tower** to **AAP**, providing training and authoring 10+ technical guides.
- o Developed reusable **Ansible Collections**, significantly reducing deployment costs and complexity by enabling teams to embed automation libraries directly in code instead of repeatedly building new workflows.
- o Streamlined DevOps Workflows via Docker-based Ansible execution environments pushed to **JBFrog Artifactory**, **HashiCorp Vault** integration for security, and an **ELK stack (Elastic, Logstash, Kibana)** for real-time metrics and logging, earning recognition from leadership for cost savings and improved reliability.
- o Built and Deployed a **Python** Slackbot on **OpenShift Cloud Platform (OCP4)** using **Jenkins**, **Docker**, and **ITIL principles**, integrating with **Dynatrace** to automate daily health checks for SRE teams, eliminating 30+ minutes of manual work per team, with over 100 checks conducted daily.

Freelance Web Developer

Self-Employed

Remote

- o Built a cloud-native MVP for “3ofCups” using **Flask**, **Docker**, **PostgreSQL**, and **Redis** with a **React.js** frontend. Implemented user authentication, SMS notifications, and referral features. Processed 100+ daily user interactions, helping the founder secure \$10,000 in seed funding.
- o Developed a **Next.js** platform for “The Dog Show with Claudia” (featured on Rogers and IMDb) using **MongoDB**, **Prisma**, and **Docker**, with a **CI/CD pipeline** on **GitHub Actions**. Ensured seamless cloud deployments that met production SLAs for uptime and scalability.

PROJECTS

Fragments Microservice [↗](#)

Technologies: Express.js, AWS (S3, DynamoDB, ECS, ECR, Cognito), Docker, GitHub Actions, Jest, Ansible, Next.js
Fragments is a universal conversion microservice that transforms any text, application, or media file into multiple formats, allowing users to seamlessly convert, download, store, or integrate the resulting output however they need.

WattWise (2nd place @ Hackthe6ix 2024) [↗](#)

Technologies: Express.js, MQTT, Docker, DynamoDB, Next.js, Flask, GitHub Actions, scikit-learn, Google Gemini GenAI
WattWise is an IoT-powered energy monitoring system that aggregates live power data, predicts monthly costs, and flags anomalies via AI, empowering users to make smarter, more sustainable energy decisions.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript/TypeScript, C/C++, Java, Bash
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Jenkins
- **Web & Backend Development:** React.js, Next.js, Express.js, Flask, FastAPI, REST APIs, GraphQL, HTML, CSS
- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Oracle SQL
- **Tools & Testing:** Git, Linux, Pytest, Jest, Postman, ELK Stack (Elasticsearch, Logstash, Kibana), Dynatrace
- **Other:** Data Structures and Algorithms, Computer Networking, Agile/Scrum, Raspberry Pi, Arduino

OTHER INITIATIVES AND ACHIEVEMENTS

- **Hackathons & Competitions:** 2nd @ uOttHack 2025, Best Dev Tool @ HackWestern 2024, 2nd @ Hackthe6ix 2024, Best Innovation @ Seneca Hackathon 2024, 1st @ RBC Fall 2023 T&O Case Competition.
- **Academic:** 3-time President's Honour List @ Seneca.
- **Open Source:** Hacktoberfest 2023/24 contributions to [Apache Airflow](#) [↗](#), [WrenAI](#) [↗](#), [Tooljet](#) [↗](#), [ZTM Quest](#) [↗](#).
- **Leadership:** Former Director of Learning (Seneca Software Developers Club), producing educational content on a [YouTube Channel](#) [↗](#) and [Tech Blog](#) [↗](#).