

# DHARTI PATEL

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## PROFILE

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Cloud Development & Operations graduate student with enterprise co-op experience in government environments. Hands-on experience with Azure cloud services, Infrastructure as Code (Terraform), containerization (Docker/Kubernetes), and CI/CD pipelines. Proven ability to work across multiple environments (DEV, TEST, UAT, Production) within Agile teams, with a focus on building secure, scalable, and reliable cloud infrastructure.

## EXPERIENCE

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**Developer (Co-op) | Canada Revenue Agency | Ottawa, ON**

Sep 2023 – Oct 2024

- Developed and tested Angular-based enterprise web applications and government web forms, including GST/HST rebate forms.
- Supported application deployments across DEV, TEST, pre-production, and production environments, following release management and validation procedures.
- Worked with Jira to manage development and testing tasks, track defects, and coordinate Agile Scrum sprint workflows across cross-functional teams.
- Assisted with application and release documentation, including testing notes and feature updates to support team knowledge sharing.
- Shadowed the release manager to observe environment promotion, release coordination, and post-release validation activities.

## PROJECTS

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**IoT-Based Cloud Monitoring System | Academic Project | Azure**

- Designed and deployed a cloud-based IoT monitoring solution on Microsoft Azure, provisioning IoT Hub, Stream Analytics, and Cosmos DB services.
- Managed cloud resources and data pipelines to process real-time streaming data at scale.
- Built a Node.js dashboard to visualize live environmental metrics from simulated IoT sensors.

**CarCinch - AI Image Processing API | Capstone Project (Ongoing) | Team Lead**

- Leading a student team on a client project to build an API for car image background removal and replacement.
- Evaluating pre-trained AI models, comparing accuracy, cost, and deployment options to support client decision-making.
- Coordinating tasks, timelines, and team progress while working closely with the client on API design and technical decisions.

**Eco Déchet - Waste Analytics Dashboard | Capstone Project | Python, Flask**

- Developed a web-based dashboard displaying garbage collection statistics by type, date, and location for a real client.
- Built backend functionality using Python and Flask to filter and serve waste data; deployed application to Heroku.
- Collaborated in an Agile team using ZenHub, contributing UI features and data exploration tools.

## SKILLS & ABILITIES

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**Cloud Platforms:** Azure (VMs, Storage, Networking, IoT Hub, Stream Analytics), AWS (foundational)

**Infrastructure & DevOps:** Terraform, Docker, Kubernetes, CI/CD Pipelines (GitHub Actions, GitLab)

**Security & Compliance:** DevSecOps, Cloud Security, Compliance & Governance (coursework)

**Programming:** Python, JavaScript, Java, Node.js, Angular, Bash, Cypress

**Testing:** Manual, Functional, Regression, Accessibility Testing

**Tools & Platforms:** Git, Linux, Jira, GitHub Projects, ZenHub, Heroku, Agile/Scrum

**Environments:** DEV / TEST / UAT / Production release workflows

## EDUCATION

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### **Cloud Development & Operations - Graduate Certificate**

2025 – 2026

Algonquin College | Ottawa, ON | GPA: 3.75 / 4.00

*Relevant Coursework: Cloud Architecture, Infrastructure as Code, DevOps & CI/CD, DevSecOps, Cloud Security, Compliance & Governance*

### **Computer Programming - Diploma**

2022 – 2024

Algonquin College | Ottawa, ON | GPA: 3.6 / 4.00

*Relevant Coursework: Object-Oriented Programming, Databases, Data Structures, Web Development, Software Testing*