

# VEDANT PATEL

Ottawa, Ontario, Canada

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vedantjpatel124@gmail.com

LinkedIn

GitHub

Portfolio

## EDUCATION

### Carleton University

*Master of Engineering in ECE (Software Engineering) - CGPA - 3.4*

Sep 2021 – Apr 2023

Ottawa, Canada

### Gujarat Technological University

*Bachelor of Engineering in Computer Engineering - CGPA - 3.68*

Aug 2016 – Aug 2020

Vadodara, India

## TECHNICAL SKILLS

**Programming:** Python, Java, C++, C, Bash, Golang

**DevOps and Cloud:** Jenkins, GitLab, Artifactory, Docker, Kubernetes, Helm, Terraform, Ansible, Git, AWS, Azure, IAM, GCP Vault

**Systems and Networking:** Linux (Ubuntu, CentOS), Windows, TCP/IP, DNS, HTTP(S), SSH, OS Fundamentals, Computer Networking

**Automation and CI/CD:** Infrastructure as Code, CI/CD Pipelines, Containerization, Debugging, QA Testing

**Development:** REST APIs, SOA, OOP, DSA, Databases, Web Services, Embedded Development, SDLC, Agile, Scrum

**Soft Skills:** Problem Solving, Communication, Teamwork, Analytical Thinking, Continuous Learning

## EXPERIENCE

### Freelance DevOps Engineer

*Self-Employed*

May 2023 – Present

Remote

- Built and maintained CI/CD pipelines using Jenkins, Docker, and AWS.
- Provisioned infrastructure using Terraform on AWS and automated deployments.
- Implemented monitoring solutions with Prometheus and Grafana, and logging with ELK Stack.
- Collaborated with clients to optimize their development workflows and reduce deployment times.
- Developed containerized applications using Docker and Kubernetes, and supported AWS EKS.

### Personal Projects and Skill Development

*Self-Learning and Skill Enhancement*

Jan 2023 – Present

Remote

- Completed courses on Terraform, Docker, Jenkins, and Kubernetes.
- Built and deployed full-stack web apps to enhance software development skills.
- Created a personal DevOps pipeline with CI/CD and infrastructure automation.
- Contributed to open-source projects on cloud computing and containerization.

### Carleton University

*Graduate Teaching Assistant*

Jan 2023 – Apr 2023

Ottawa, Canada

- Conducted labs and tutorials for COMP 3002 and COMP 3007.
- Graded assignments, quizzes, and proctored exams.
- Collaborated on quiz/exam design and provided office hours support.
- Received commendations for fostering a positive learning environment.

### Plugra Pumps and Motors Pvt. Ltd.

*Graduate Trainee*

Jun 2020 – Sep 2020

Gujarat, India

- Gained experience in Networks, Servers, and Database Management.
- Developed Java applications and participated in Web Development Automation.
- Worked with Microsoft NAV on ERP tasks.

### W V Magic Web Design Pvt. Ltd.

*Software Development Engineer Intern*

Aug 2019 – Jan 2020

Gujarat, India

- Designed and developed software using J2EE, Java, Servlets, and MySQL.
- Performed code debugging, testing, and quality assurance.
- Ensured timely project delivery and engaged in code reviews.

## PROJECTS

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### Go Web App with CI/CD on AWS |

Go, Docker, GitHub Actions, Helm, Kubernetes, AWS EKS

**May 2025**

- Built and containerized a Go web app, deployed to AWS EKS using Helm.
- Automated CI/CD with GitHub Actions: test, build, push to DockerHub, and update Helm tags.
- Exposed app publicly via AWS LoadBalancer using Kubernetes manifests and secure GitHub Secrets.

### DevOps Cloud Infrastructure Automation |

AWS, Jenkins, Terraform, Docker, Kubernetes, Ansible, Prometheus, Grafana, ELK

**Mar 2025**

- Automated CI/CD pipeline using Jenkins and infrastructure provisioning with Terraform on AWS.
- Deployed microservices with Docker and Kubernetes on AWS EKS for scalability and availability.
- Orchestrated environment setup and app deployments using Ansible.
- Implemented centralized monitoring with Prometheus, Grafana, and ELK stack.
- Secured cloud infrastructure with AWS IAM, S3, and Secrets Manager.

### Online Shopping Portal | PHP, MySQL, HTML, CSS, JavaScript

**Dec 2023**

- Built a web application for online shopping with user registration and product management.
- Implemented a dynamic front-end with HTML, CSS, and JavaScript for a seamless user experience.

### MenuMaster - A Restaurant Menu Ordering System | Python, Spyder, Anaconda

**Apr 2023**

- Designed a restaurant menu ordering system to enhance customer service and experience with features for order management and receipt generation.
- Optimized the order flow for quick and efficient service, reducing wait times and improving customer satisfaction.

### Task Scheduling in Edge Computing | Python, Jupyter Notebook

**Apr 2022**

- Optimized task scheduling in edge computing to improve resource utilization and reduce latency using the Tabu Search Algorithm.
- Developed a solution to improve efficiency in distributed systems under edge computing environments.

### Predicting Victories in Video Games | Python, ML (pandas, NumPy, scikit-learn)

**Jan 2022**

- Developed a machine learning model to predict the outcome of video game matches (Tactical Troops: Anthracite Shift).
- Utilized pandas, NumPy, and scikit-learn for data manipulation, feature engineering, and model evaluation.

### Tourist Guide - Android Application | Java, Android SDK, MySQL

**Aug 2020**

- Developed an Android application that offers information about tourist destinations and navigation features.
- Implemented a sorted list of places to visit based on available time and user's current location using MySQL for backend storage.

## CERTIFICATIONS

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- AWS Essential Training for Developers (LinkedIn Learning)
- Learning Jenkins (LinkedIn Learning)
- Career Essentials in Software Development by Microsoft and LinkedIn (Microsoft)
- Neural Networks and Deep Learning (Coursera)
- Test Automation Foundations (LinkedIn Learning)
- Architecting with Google Compute Engine (Coursera)
- Web Design for Web Developers (Udemy)
- Create Your First Web App with Python and Flask (Coursera)
- Python for Everybody (Coursera)