

# Vraj Patel

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## EDUCATION

**Masters of Computer Application | Cloud Computing**  
PARUL UNIVERSITY

Vadodara Gujarat | August 24 - Present

**Bachelors of Computer Application | Cloud Computing**  
PARUL UNIVERSITY

Vadodara, Gujarat | June 21 - May 24

## EXPERIENCE

**SEMICOLON SOLUTIONS | WEB DEVELOPER INTERN**

Surat, Gujarat | November 23 - April 24

- Developed and maintained data-driven web modules using **Java** and **PHP**, integrating frontend interfaces with backend logic to achieve seamless data flow and improve application responsiveness by **20%**.
- **Integrated** robust **MySQL** database connectivity, optimizing query performance and reducing data retrieval latency for end-user interactions.
- **Collaborated** with the development team to deploy applications on **Linux** servers, utilizing **Docker** for consistent environments and ensuring **99% system uptime** during testing phases.

## PROJECTS

**AUTOMATED HIGH-AVAILABILITY CLOUD INFRASTRUCTURE** 

AWS EC2, NGINX, KEEPALIVED

- Engineered a fault-tolerant web server cluster on AWS EC2 using NGINX and Keepalived, achieving 99.99% service availability by eliminating single points of failure through active-passive redundancy.
- Implemented automated IP failover mechanisms using VRRP protocols, reducing system recovery time from minutes to under 5 seconds by instantly switching traffic to backup instances during server health degradation.
- Optimized load balancing configurations to handle concurrent user traffic, ensuring continuous application delivery and establishing a self-healing infrastructure that requires zero manual intervention for server maintenance.

**CAFE CONNECT - CAFE OPERATIONS & ORDER MANAGEMENT PLATFORM** 

JAVASCRIPT, PHP, BOOTSTRAP, MYSQL

- Architected a full-stack web application using PHP and MySQL, implementing Role-Based Access Control (RBAC) for Admins, Shop Owners, and Customers, which streamlined distinct workflows and reduced manual order processing time by 40%.
- Designed a normalized MySQL database schema with custom Stored Procedures to efficiently track complex relationships between orders, line-items, and payments, enabling real-time revenue analytics and reporting for business owners.
- Built a responsive, modular frontend using Bootstrap 5 and JavaScript, featuring real-time cart management and a seamless "Pre-order" workflow that improved user checkout speed by 25%.

## SKILLS

- **Cloud Platform:** Amazon Web Services, Google Cloud Platform
- **DevOps & Automation:** Github, Docker, Monitoring
- **Programming Languages:** Python, Java, PHP, HTML/CSS, JavaScript, Bootstrap
- **Database:** MySQL, Amazon RDS
- **Operating System:** Linux & Server Management

## CERTIFICATIONS

- Data Science Using Python | NPTEL
- AWS Academy Cloud Foundations
- Computer Networks and Internet Protocols | NPTEL
- Cloud Computing | NPTEL