

Milan Bhimani

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PROFESSIONAL SUMMARY

Backend engineer specializing in scalable RESTful APIs with **Python** (FastAPI, Flask, Django) and **JavaScript** (Node.js, Express.js). Experienced in MongoDB, Firebase, MySQL, Docker, CI/CD, and Linux. Strong foundation in ML workflows and AI-driven applications with focus on clean architecture and security-first development.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML5, CSS3

Backend Frameworks: FastAPI, Flask, Django, Node.js, Express.js, RESTful APIs

Databases: MongoDB, Firebase Firestore, MySQL

DevOps & Tools: Docker, CI/CD (GitHub Actions), Git, Linux (Ubuntu, Bash)

AI/ML: scikit-learn, Pandas, NumPy, Matplotlib, Prompt Engineering

Cloud & Deployment: Firebase, Vercel

Testing & Security: Pytest, Jest, Input Validation, JWT

PROJECTS

ShopEase - E-commerce Backend Platform | *FastAPI, Firebase, Docker, JS*

[GitHub](#) | [Live Demo](#)

- Architected production-grade RESTful API with **FastAPI** following clean architecture and dependency injection patterns, achieving 99.9% uptime and sub-100ms response times
- Designed NoSQL schema in **Firebase Firestore** with optimized indexing for products, users, carts, and orders, handling 500+ concurrent users efficiently
- Implemented **JWT-based authentication** and role-based access control (RBAC) with Pydantic validation, preventing 100% of injection attacks in security testing
- Containerized with **Docker** and automated deployment via **GitHub Actions CI/CD**, reducing deployment time from 45 minutes to 5 minutes

Univents - Hyperlocal Event Discovery API | *Node.js, Express.js, MongoDB, Docker*

[GitHub](#) | [Live Demo](#)

- Built scalable REST API with **Express.js** handling 1000+ concurrent requests using connection pooling and MongoDB geospatial indexing for location-based queries within 5km radius
- Implemented advanced filtering, pagination, and full-text search with **MongoDB aggregation pipelines**, improving query performance by 60% through compound indexing
- Applied input sanitization, rate limiting (100 req/min), and helmet.js middleware to prevent NoSQL injection and ensure OWASP compliance
- Achieved 85% test coverage with **Jest** and deployed using Docker Compose with Nginx reverse proxy for load balancing

DSA Visualizer - Algorithm Learning Platform | *Flask, JavaScript, HTML5 Canvas*

[GitHub](#) | [Live Demo](#)

- Developed interactive web app visualizing 10+ sorting and searching algorithms with real-time execution using **Flask** backend and custom JavaScript animations at 60fps
- Implemented RESTful endpoints with comprehensive error handling and CORS configuration for secure cross-origin communication
- Built responsive UI with HTML5 Canvas API and AJAX for asynchronous algorithm execution, serving 500+ students

EDUCATION

Parul University

Vadodara, Gujarat, India

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.38/10.0

Aug 2022 – May 2026

R.A.K.V.B Higher Secondary School

Botad, Gujarat, India

Class XII (Gujarat Board); Percentage: 75.84%

Completed 2022

Shree Adarsh Secondary School

Botad, Gujarat, India

Class X (Gujarat Board); Percentage: 90.33%

Completed 2020

CERTIFICATIONS

Computer Networks and Internet Protocol - NPTEL

Java Programming and Python Fundamentals - Infosys Springboard