

# 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

<b>Parul University</b>	<a href="#">Vadodara, Gujarat, India</a>
<i>Bachelor of Technology in Computer Science and Engineering; CGPA: 8.38/10.0</i>	<i>Aug 2022 – May 2026</i>
<b>R.A.K.V.B Higher Secondary School</b>	<a href="#">Botad, Gujarat, India</a>
<i>Class XII (Gujarat Board); Percentage: 75.84%</i>	<i>Completed 2022</i>
<b>Shree Adarsh Secondary School</b>	<a href="#">Botad, Gujarat, India</a>
<i>Class X (Gujarat Board); Percentage: 90.33%</i>	<i>Completed 2020</i>

## CERTIFICATIONS

**Computer Networks and Internet Protocol** - NPTEL  
**Java Programming and Python Fundamentals** - Infosys Springboard