

# MANGESH SURESH BIDE

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## EDUCATION

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### B. Tech in Computer Engineering

2021 - 2024

R. C. Patel Institute of Technology, Shirpur, Maharashtra

CGPA: 7.98/10

### Diploma in Computer Engineering

2019 - 2021

R. C. Patel Polytechnic, Shirpur, Maharashtra

Percentage: 93.89%

## SKILLS & INTERESTS

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**Programming Languages:** Python, JavaScript (ES6+), TypeScript, Java, PHP

**Backend Frameworks:** Django (REST Framework, ViewSets), NestJS, Node.js (Express), Laravel

**Frontend Technologies:** React.js, Next.js, Tailwind CSS, shadcn/ui, HTML5, CSS3

**DevOps & Tooling:** Docker, GitHub Actions, Terraform, Git, GitLab, Shell Scripting

**Cloud Platforms & Deployment:** AWS (EC2, S3, IAM, Cognito), Firebase, Vercel, CI/CD Pipelines

**Database Systems:** PostgreSQL, MySQL, MongoDB, DynamoDB

**Machine Learning & AI:** TensorFlow, PyTorch, Eden AI APIs, Computer Vision

**Project Tools:** Jira, Notion, Slack, Figma (basic)

**Soft Skills:** Clear Communication, Team Collaboration, Problem-Solving, Ownership, Rapid Learning

**Interests:** Cloud Infrastructure, Distributed Systems, DevOps, System Design, Anime, Gaming

## EXPERIENCE

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### Software Development Engineer - I

Feb 2025 – Present

Houseworks Technologies — Remote

- Leading backend development for a critical healthcare product using Django, PostgreSQL, and AWS, handling core modules like user authentication, ICD coding, and appointment workflows.
- Designed and implemented scalable infrastructure with Terraform and Docker, enabling one-click deployment for staging and production environments.
- Streamlined CI/CD processes using GitHub Actions and Shell scripting, reducing deployment time by 70% and eliminating manual overhead.
- Added hot-reload support and environment-aware Docker setups to accelerate development feedback loops.
- Occasionally, contributed to front-end features using React.js, Next.js, and shadcn/ui, ensuring seamless user experience and performance.
- Collaborated across cross-functional teams using Jira, Notion, and Slack; actively participated in architecture discussions and product grooming sessions.
- Practiced clean code principles (SOLID, DRY), wrote unit tests with meaningful assertions, and consistently delivered well-documented, production-ready code.

### Software Development Engineer Intern

Feb 2025 - Mar 2025

Houseworks Technologies — Remote

- Automated infrastructure setup for staging environments using Terraform Workspaces and EC2 provisioning.
- Optimized CI/CD pipelines and added hot-reloading for Django with Docker Compose and Gunicorn.
- Contributed to internal product UI with React.js, Next.js, and shadcn/ui, maintaining design consistency and accessibility.

## Software Development Engineer Trainee

Oct 2024 - Feb 2025

Procedure Technologies, Mumbai, Maharashtra

- Gained hands-on experience in full-stack development with React.js, Next.js, TypeScript, and NestJS.
- Containerized apps using Docker and managed infrastructure with Terraform, following software design patterns and best practices.
- Learned system design principles and applied clean code practices in live projects.

## Backend Developer Intern

Feb 2024 - July 2024

Netwin Infosolutions Pvt Ltd, Nashik, Maharashtra

- Developed RESTful APIs and integrated JWT authentication for a Flutter-based activity tracker live project using Django and MySQL.
- Implemented image-based search functionality for an eCommerce app by integrating a machine learning API from Eden AI.
- Created an admin panel for managing users, roles, tickets, and activities.
- Set up email-based password reset and OTP-based activity verification using Twilio.

## President

Feb 2023 - April 2024

Akatsuki Coding Club, R.C. Patel Institute of Technology, Shirpur

- Led the club's activities, including organizing coding competitions and technical workshops for over 100 students.

## PROJECTS

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### Expense Tracking and Budgeting API

(NestJS, TypeORM, Swagger, JWT)

- Designing a modular API for managing expenses with JWT-based auth, role-based access, data aggregation, and scheduled summaries.
- Integrated Swagger for live API documentation and tested endpoints using Postman and Jest.

### Infrastructure-as-Code Deployment for ChatApp

(Terraform, AWS EC2, DNS)

- Provisioned and deployed a real-time chat application using Terraform scripts on AWS EC2, ensuring scalability and high availability.
- Configured DNS routing and SSH for CI/CD with minimal manual intervention.

### CrimiFace — Criminal Recognition System

(Python, TensorFlow)

- Built a facial recognition tool using ML models to detect and match faces against a criminal database.
- Applied OpenCV and TensorFlow for image preprocessing, model training, and real-time inference.

### Real-time ChatApp

(Node.js, Express, Socket.io)

- Developed a chat platform with private messaging, room-based communication, and activity logging using WebSockets.
- Ensured fault-tolerance and event-based communication for seamless real-time interaction.