

# PRATHAM PATEL

A Software Engineer

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## Education

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**CVM University**

*Bachelors of Engineering in Computer Engineering, 9.10 CGPA*

**VV Nagar, Gujarat, India**

*2021-2025*

## Personal Projects

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### GOOGLE FLIGHTS - [LINK](#)

- Engineered an innovative Microservice Architecture for an Airline booking backend optimized for performance and scalability leveraging Node.js, Express.js and MySQL with Sequelize ORM.
- Crafted a detailed design documentation before initiating the project, outlining the architectural blueprint and key functionalities of the Microservice-based Airline booking backend.
- Developed key features such as request authorization, flight management, reminder services, rate limiting, API gateway integration.

### QUICKCHAT - [LINK](#)

- Built a web-based messaging platform-QuickChat, leveraging Node.js event-driven architecture and React.js.
- Implemented end-to-end encryption for all messages with AES-256 and utilized JWT authentication for user security.
- Configured to restrict access to specific user groups, such as students from a particular college or university, enabling anonymous chatting with others.

### CITIZENVOICE - [LINK](#)

- Created CitizenVoice, a QR Code Based Citizen Feedback System exclusively for Gujarat Police.
- Sole developer on the project, designed and developed a full-stack web application using the MERN Stack with a responsive front-end in just 10 hours.
- Wrote services for scanning QR codes and sending OTPs for user authorization.
- Presented at the SSIP 2.0 Vibrant India hackathon 2023, where 4 out of 5 jury members commended the implementation with improvements that can be done.

### SPENDWISE - [LINK](#)

- Built SpendWise, a solution for effective expense management, featuring intuitive user interface and responsive front-end with React.js.
- Engineered a robust backend using Node.js and Express.js, with MongoDB serving as the data repository.
- Integrated Google OAuth 2.0 and JWT Authentication to ensure secure user access and authentication, streamlining the expense tracking process.

## Technical Skills

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**Languages:** Java, Javascript

**Libraries/Frameworks:** React.js, Next.js, Node.js, Express.js, Mongoose, Sequelize

**Developer Tools:** Git (Version Control System), GitHub

**Databases:** MongoDB, MySQL

**Cloud:** Microsoft Azure App Services