

DHEEMANTH M

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EDUCATION

Bachelor of Engineering (Computer Science)

B M S College of Engineering, Bangalore

2022- Present

CGPA 9.08/10

PUC- Karnataka State Board

Sadvidya Semi Residential PU College, Mysore

2020 – 2022

Percentage – 96.4%

Class 10th - CBSE

Christ Public School, Mysore

2010 – 2020

Percentage – 90%

TECHNICAL SKILLS

- **Languages:** Python, C++, TypeScript, SQL
- **Backend:** Node.js, Express, Redis, PostgreSQL, BullMQ, Firebase, REST APIs
- **Frontend:** React.js, Next.js, Tailwind CSS, Flutter
- **Tools:** Git, Swagger, Docker, Twilio, Nodemailer, CRON, Puppeteer
- **Soft skills:** Communication, Leadership, Teamwork, Adaptability

PROJECTS

1. DheeSpace – Real-Time Collaborative Document Editor [[Link](#)]*Deployed*

Next.js • TypeScript • Tailwind CSS • Liveblocks • Firebase (Auth + Firestore)

Built and deployed a rich-text document editor supporting real-time, multi-user collaboration.

- Implemented WebSocket-based Liveblocks for live cursors, presence, and conflict-free editing.
- Built secure document CRUD & sharing backed by Firebase Auth + Firestore.
- Added AI services (chat-to-doc, translate) via Google Gemini; one-click PDF, docx export.
- Achieved fully responsive UI with Tailwind and reusable component library.
- Deployed on Vercel; followed modular, type-safe coding practices.

2. Scalable Notification Delivery System [[Link](#)]

Node.js, Express, Redis, BullMQ, PostgreSQL, Twilio, Nodemailer, WebSocket, Swagger

Designed and implemented a distributed, fault-tolerant notification system supporting email, SMS, and in-app delivery.

- Used Redis (BullMQ) for job queuing and background processing
- Implemented retry logic with exponential backoff for failed jobs
- Integrated Twilio, Nodemailer, and CRON for scheduled, multi-channel delivery
- Exposed a Swagger-documented API with modular endpoints
- Stored delivery history and status in PostgreSQL for auditability

ADDITIONAL INFORMATION

- Volunteer: Technical Fest Volunteer
- Hobbies: Cooking, Reading Newspaper
- Languages: English, Kannada, Hindi