

# Shashivardhan Reddy Bajari

Software Engineer at FiftyFive Technologies

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## Professional Experience

Software Engineer at FiftyFive Technologies

July 2022 – Present

Tech Stack: Node.js, React, Express.js, PostgreSQL, Stripe, Redis, Azure

- Developed and maintained a high-traffic E-Commerce platform for digital subscriptions, integrating Stripe and NetsEasy payment gateways.
- Boosted user retention by 30% through automated subscription renewals and a voucher-based discount system.
- Designed and implemented responsive React components for checkout and subscription workflows, enhancing UX and reducing churn.
- Architected and maintained a centralized Redux store to streamline state management and reduce component re-renders by 25%.
- Integrated Redis caching, improving API response times by 40% and reducing database query load by 30%.
- Optimized payment pipelines in Stripe, achieving a 99% transaction success rate.

Backend Developer Trainee at FunctionUp

Feb 2022 – July 2022

Tech Stack: Node.js, Express.js, MongoDB(Mongoose), Redis, AWS

- Engineered backend microservices using Node.js and Express.js, integrating MongoDB (Mongoose) for dynamic data models.
- Leveraged AWS S3 and SNS for scalable file storage and event-driven notifications.
- Enhanced backend efficiency through Redis caching, reducing average API latency by 25%.

## Personal Project

ThumbGen, AI-Powered Thumbnail Creation Platform

[Live Demo](#)

Tech Stack: Next.js, TypeScript, PostgreSQL(Prisma), Redis, Gemini AI, AWS, Docker, Nginx

- Developed and deployed ThumbGen, an AI-powered YouTube thumbnail generator using Gemini AI, Redis, Next.js, and PostgreSQL.
- Implemented UI using Next.js, delivering a responsive and intuitive interface for real-time thumbnail creation.
- Built a scalable backend architecture supporting concurrent AI requests with Redis caching and queue-based task handling.
- Integrated secure authentication (Clerk) and encrypted media storage with AWS S3.
- Deployed via Docker, Nginx, and GitHub Actions CI/CD pipeline to ensure zero-downtime updates.

## Skills

- Backend Technologies: Node.js, Express.js, TypeScript
- Frontend: React, Next.js, HTML, CSS
- Databases: PostgreSQL (Sequelize), MongoDB (Mongoose), VectorDB
- Cloud & DevOps: AWS S3, AWS SNS, Microsoft Azure, Docker, CI/CD, AWS EC2
- AI: OpenAI, Langchain, Gemini AI, LangGraph
- Caching & Messaging: Redis, Kafka, BullMQ
- Security & Auth: JWT, Bcrypt, Helmet.js, OAuth2
- Testing & Quality: Jest, Mocha, Chai, Supertest, Postman (API Testing)
- Version Control & Tools: Git, GitHub, Postman, VS Code, Swagger
- Algorithms & Data Structures

## Education

CMR Institute of Technology, Hyderabad

B.Tech | July 2018 – May 2022 | GPA: 7.7

NRI Junior College, Hyderabad

12th Grade | June 2016 – March 2018 | Percentage: 96.8%