VINAYAK NAGAR

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Education

Bennett University — **Aug 2022 – May 2026**
Bachelor of Technology in Computer Science and Engineering — *India*
- CGPA: 9.29/10 (expected) — Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Operating Systems

Technical Skills

Programming Languages: C++, TypeScript, JavaScript, Python, Java
Frameworks & Runtimes: Next.js, React.js, Node.js, Bun, Express.js, FastAPI
Database Management: PostgreSQL, MongoDB, Prisma, MySQL, Redis
Message Queues & Caching: RabbitMQ, Redis, Bull Queue
DevOps & Tools: Docker, Nginx, GitHub, Git, AWS, DigitalOcean, CI/CD, Kubernetes
UI/UX & Design: HTML5, CSS3, Tailwind CSS
Other: Machine Learning, AI Integration, Data Structures & Algorithms, Object Oriented Programming

Projects

DoodleX | *Next.js, Node.js, Express, Prisma, PostgreSQL, Turborepo, Docker* — **Feb 2025**
LiveDemo | GitHub
- Built a **full-stack collaborative drawing platform** with **AI-powered shape generation** supporting 10+ concurrent users per room to create drawings from text prompts with secure JWT authentication.
- Created and deployed **AI drawing generation feature** processing 50+ shape requests, enabling users to generate drawings from natural language prompts with custom canvas solution for seamless experience.
- Architected the backend with **WebSockets** for real-time data transmission, **room management system** handling 20+ simultaneous connections with optimized rendering across desktop and mobile devices.
- Deployed with **CI/CD pipelines** to **DigitalOcean VM** using Docker containerization achieving 99%+ uptime and automated deployment processes with 2+ environment configurations.

UpHive | *Next.js, Bun, TypeScript, RabbitMQ, Redis, PostgreSQL, Prisma, Docker* — **Apr 2025**
LiveDemo | GitHub
- Engineered a **distributed website monitoring platform** to track uptime and response times in real time with **scalable message-driven architecture** using **RabbitMQ** and **Redis**.
- Developed a **Bun-based backend** scheduling periodic monitoring jobs and dispatching tasks to worker services handling **1000+ concurrent website checks** with fault-tolerant design.
- Implemented **Bull Queue (Redis)** for reliable asynchronous processing and automatic retries, ensuring consistent database writes and email notifications via **Nodemailer**.
- Designed a **Next.js dashboard** visualizing uptime trends, response times, and historical data with interactive charts and filters for 24h, 7d, and 30d views.

NotedAI | *Next.js, Tailwind CSS, Appwrite, Groq AI, CopilotKit, shadcn/ui* — **Mar 2025**
LiveDemo | GitHub
- Architected an **AI-powered productivity platform** with 15+ React components that automates note-taking, task management, and meeting organization, **saving users 1+ hour daily** with intuitive user experience.
- Integrated **Groq AI API** and engineered 5+ intelligent features including **automated note summarization**, **priority-based task management**, and **contextual AI assistant** with <2s response times.
- Designed and implemented a **responsive UI/UX** using **Tailwind CSS** and **shadcn/ui** components, delivering **dark/light themes** and **accessibility features** across 5 pages with high user satisfaction.

Professional Experience

Full Stack Engineer Trainee — **Jun 2024 – Sep 2024**
DevsLane — *Remote*
- Built full-stack applications using **React.js** and **Node.js**.
- Implemented **JWT-based authentication** and integrated **RESTful APIs** for seamless data communication.
- Managed **MongoDB** operations for efficient data handling and storage.

Academic and Extracurricular Achievements

- **Dean's List Award:** Top 1% ranking with 9.86 SGPA among 1,600+ students.
- **Hackkacino Hackathon:** Runner-up among 90+ teams in 24-hour campus hackathon.
- **DSA Problems:** Solved 600+ problems across all difficulty levels on LeetCode and GFG using C++.