Vatsal Patel

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Summary

Computer Engineering undergraduate with hands-on experience building and deploying full-stack web applications using Next.js, Node.js, and PostgreSQL. Delivered real-world projects with scalable architectures, secure authentication, and modern tools like Docker, MongoDB Atlas, and Vercel. Looking to contribute to impactful development teams and deepen practical software engineering experience in a fast-paced, collaborative environment.

Projects

MyBlog – Full-Stack Blogging Platform | *Next.js 14, TypeScript, MongoDB, NextAuth.js, Tailwind CSS*   **June 2025**

- Built a modern blogging platform with server-rendered pages using Next.js App Router and React Server Components for improved performance and SEO.
- Implemented secure authentication with NextAuth.js and Google OAuth, including role-based access control.
- Reduced load times by 5× through optimized MongoDB queries and indexing; improved SEO with hybrid SSR.
- Added full CRUD features for posts and comments, including a live Markdown editor and responsive UI.
- **Live**: `blog-app-nextjs-blush.vercel.app`   **GitHub**: `github.com/IamVatsal/Blog_App_Nextjs`

Book Notes – Book Review Web App | *Node.js, Express.js, PostgreSQL, EJS, Bootstrap*   **Feb 2025**

- Developed a full-stack web app to add, review, and manage books using server-side EJS templates with Express.js and PostgreSQL.
- Integrated Open Library API to auto-fetch book metadata using ISBN or OLID, reducing manual input.
- Enabled secure login with Google OAuth and local strategy authentication using Passport.js.
- Implemented search, filter, and CRUD functionality with a scalable database schema.
- **Live**: `book-notes-webapp.onrender.com`   **GitHub**: `github.com/IamVatsal/Book-Notes-WebApp`

Technical Skills

Languages: C, C++, Python, TypeScript, JavaScript, HTML/CSS, SQL
Developer Tools: VS Code, Git, GitHub, Postman, Docker, Vercel, Render, ESLint, Prettier, dotenv, npm, MongoDB Compass, Chrome DevTools
Technologies/Frameworks: Next.js, React, Tailwind CSS, Node.js, Express.js, Linux, PostgreSQL, REST APIs

Certifications

Problem Solving Through Programming in C | *NPTEL*	**Apr 2025**
Fundamentals of Object-Oriented Programming | *NPTEL*	**Apr 2025**
The Complete Full-Stack Web Development Bootcamp | *Udemy*	**Feb 2024**
Python for Beginners | *Simplilearn*	**Aug 2024**

Education

Ganpat University	**Aug. 2024 – May 2028**
Bachelor of Technology in Computer Engineering	*Mehsana, Gujarat*

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Database Management Systems
- Web Development

Leadership / Extracurricular

National Service Scheme (NSS)	**Feb 2024 – Present**
Member	*Ganpat University*

- Volunteered in a blood donation drive and raised awareness about its importance.
- Participated in cultural programs to promote engagement and creativity.
- Promoted teamwork and service through direct community interaction.