

# Vijay Vinod Mane

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🐙 github.com/blue\_set

## Education

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**VIT Bhopal University**, Madhya Pradesh

Expected 2026

**B.Tech in Computer Science and Engineering** (Cloud Computing and Automation)

- Cumulative GPA: 8.83 (on a 10.0 scale)

## Projects

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**Serenade Music Player** | FOSS Hack 2025 Winner

Jan 2025 – Apr 2025

- Awarded the Second Highest Cash Prize at FOSS Hack 2025, competing against over 500 teams.
- Architected and led the development of [Serenade](#), a cross-platform open-source music player built using Electron, React, and integrated SpotDL for streamlined music acquisition.
- Engineered core features including seamless music download capabilities, persistent last-played memory, and dynamic audio visualizations powered by the Web Audio API.
- Directed the frontend module development and facilitated crucial cross-functional integration with backend services to deliver a cohesive user experience.

**Intelligent PDF-based Chat Assistant** | OpenAI, AWS, TypeScript

Jan 2024

- Developed a sophisticated document assistant designed to parse complex PDF documents and provide accurate, contextually relevant answers to user queries.
- Integrated advanced natural language processing capabilities via the OpenAI API to enhance contextual understanding and conversational flow.
- Built a robust backend infrastructure using Node.js, leveraging NeonDB for scalable relational storage and PineconeDB for efficient vector embeddings and semantic search.

**HealthChatbot** | Multilingual AI Healthcare

Jul 2024 – Sep 2024

- Created a multilingual healthcare chatbot supporting English and Hindi, aimed at providing basic symptom triage and facilitating navigation to local healthcare services.
- Prioritized accessible UI/UX design and implemented data privacy measures, particularly targeting users on resource-constrained devices.

**Blood Bank Management System** | AWS, PHP, MySQL

Aug 2023 – Dec 2023

- Designed, developed, and deployed a secure and scalable web-based blood bank management system capable of handling over 10,000 transactions daily.
- Implemented a comprehensive security model including session management, user authentication, and granular role-based access control to protect sensitive data.
- Developed intuitive administrator and staff dashboards providing real-time inventory tracking, donation history management, and operational insights.
- Managed the full project lifecycle, including deployment on AWS Windows Server, and optimized the system for high concurrent access and performance.

## Skills

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**Languages:** C++, Java, Python, TypeScript, HTML, CSS, JavaScript, React, Tailwind CSS

**Frameworks:** Node.js, Electron, Git, XAMPP, OpenAI API

**Cloud:** AWS (EC2, S3), GCP, Azure, VirtualBox, VMWare, Debian, Ubuntu, Windows