

Akash Patil

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Education

Veermata Jijabai Technological Institute (VJTI), Mumbai, Maharashtra Bachelor of Technology (B.Tech) in Computer Engineering	2024 – Present
Veermata Jijabai Technological Institute (VJTI), Mumbai, Maharashtra Diploma in Chemical Engineering, Percentage: 97.21%	2021 – 2024
Don Bosco High School, Kalyan, Maharashtra SSC, Percentage: 88.60%	2020 – 2021

Technical Skills

Programming Languages: JavaScript, C++
Frontend: React.js, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, Firebase, Appwrite
Databases: MongoDB, SQL, MariaDB, Redis
Tools & Platforms: Docker, Git, GitHub

Projects

- **LeetCode Platform with AI Assistant** 🔗
HTML, CSS, JavaScript, React, Node.js, Express.js, MongoDB, Redis, Judge0, Gemini AI, Cloudinary
 - Full-stack web platform for solving coding problems with live code execution via Judge0 API.
 - Integrated Gemini AI to provide personalized hints, in-depth debugging assistance, and detailed solution explanations, significantly improving overall user learning efficiency and long-term engagement.
 - Integrated Monaco Editor to deliver a powerful, efficient, and responsive custom code editor with syntax highlighting, real-time feedback, and seamless multi-language support for complex coding challenges.
 - Provided detailed video solutions for coding problems via Cloudinary and implemented Redis-based session management to ensure secure, fast, and scalable login/logout functionality with efficient session tracking.
- **Employee Task Management System** 🔗
HTML, CSS, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB
 - Built a modern web application to manage employee tasks with dynamic status tracking (New, Active, Completed, Failed), delivering a seamless user experience through React hooks and Tailwind CSS.
 - Implemented an intuitive, feature-rich admin panel enabling efficient task creation, seamless assignment to multiple employees, and real-time updates, improving team productivity and operational efficiency.
 - Implemented secure user authentication and robust role-based access control to protect sensitive data.
 - Proactively leveraged modern development principles such as reusable components, modular architecture, and optimized state management to enhance long-term scalability, maintainability, and overall code clarity.
- **Blog Platform** 🔗
HTML, CSS, JavaScript, React, Tailwind CSS, Appwrite
 - Successfully developed a responsive full-stack blogging platform enabling users to seamlessly write, edit, manage, and securely publish blog content with a clean, modern, and intuitive user interface.
 - Efficiently integrated robust Appwrite BaaS for secure user authentication, session handling, and highly scalable, flexible document-based database management with advanced user-level access control.
 - Implemented a feature-rich markdown editor using TinyMCE to enable advanced rich text formatting, live preview, embedded media support, and a seamless, enhanced writing experience for blog post creation.

Awards & Leadership

- **Meritorious Award for Academic Excellence** for securing distinction throughout all semesters with a cumulative score of **97.21%** in diploma examinations, leading to the attainment of **34th rank across Maharashtra** among thousands of candidates.
- **Line-Following Robot:** Built and programmed a line-following robot using IR sensors and C++, gaining hands-on experience in embedded robotics and participating in a college-level competition.
- **Sponsorship Head (Department Committee):** Oversaw and led all sponsorship activities, successfully raising over 2.5 lakh by initiating outreach campaigns, negotiating with sponsors, and establishing long-term partnerships to support major departmental technical events and workshops.