

# Ajay Jain

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## EDUCATION

**Indian Institute of Information Technology, Vadodara**

Dec. 2022 – Dec 2026

*B.Tech in Computer Science and Engineering*

*CPI 8.1*

**St. Paul Sr. Sec. School**

*Higher Secondary Education*

*Class 12 - 96%*

## TECHNICAL SKILLS

**Languages:** Javascript, C/C++, Python, Kotlin, Java, HTML/CSS, SQL

**Technologies:** Express.js, React.js, Redux, MongoDB, SocketIO, Docker, AWS, Git/Github

## PROFESSIONAL EXPERIENCE

**Machine Vision Direct**

Aug 2024 – Present

*Full Stack Software Engineer Freelancer*

- Solely designed, developed, and deployed a full-stack web application for managing machine vision products, utilizing Express.js, React.js, PostgreSQL, and Nginx.
- Engineered a **complex, hierarchical database structure** to handle large datasets with efficient querying and future scalability.
- Developed and implemented **Shopify integration** for seamless product synchronization, ensuring consistent and up-to-date product data across the web platform and the store.
- Managed the full development lifecycle, from backend API design to frontend UX, while handling **security, performance optimizations, and deployment.**

**Joint Secretary, Coding Club**


Aug 2023 – Aug 2024

*IIT Vadodara*

- Helped organize competitive programming contests, overseeing the entire process from problem framing to testing, ensuring seamless execution and high participant engagement.
- Mentored new students during the "Winter Of Code" initiative, helping them get familiar with programming, improve their skills and boost club participation.

## PROJECTS

**EasyInvoice** | *Express.js, React.js, Redux, MongoDB, Docker, AWS*

[Github](#) 


- Created a full-stack invoicing application for efficient customer and invoice management. Features include dynamic invoice generation, PDF emailing, and a real-time sales dashboard with overdue statistics.
- Implemented advanced security using token-based authentication with refresh token rotation and custom logging using Morgan and Winston in Node.js.
- Deployed EasyInvoice on AWS EC2, leveraging cloud infrastructure for scalable deployment and ensuring high availability of the application.

**Entry Flow** | *Express.js, React.js, Redux, MongoDB, DaisyUI*

[Github](#) 

- Developed Entry Flow using the MERN stack to streamline hostel entry and exit processes, eliminating the need for manual data entry.
- Integrated QR code scanning to allow guards to efficiently track student movements, enhancing security and reducing administrative overhead.
- Implemented an Express.js backend with MongoDB Atlas using Mongoose, and a responsive front-end with React, DaisyUI, and Tailwind CSS. Implemented clean, modular code for enhanced maintainability and reduced debugging time.

**Flow Chat** | *Express.js, React.js, Redux, MongoDB, AWS S3*

[Github](#) 

- Developed a real-time chat application using the MERN stack, facilitating seamless user communication.
- Implemented Socket.IO for instant messaging capabilities, ensuring real-time user updates and interactions.
- Leveraged AWS S3 for secure and scalable file storage that enables users to share files within chats.