

Kavan Vavadiya Mechanical Engineering

Indian Institute of Technology Bombay

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210100166 B.Tech.

Gender: Male DOB: 24/08/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	8.76
Intermediate	GSEB	Vidyamandir Trust	2021	90.46%
Matriculation	GSEB	Vidyamandir Trust	2019	91.50%

Pursuing a Minor Degree in the Department of Computer Science and Engineering at IIT Bombay

Professional Experience ____

iOS Developer Intern | Blinkit

(May'24 - Jul'24)

India's largest and most convenient hyper-local delivery company

- Worked on a Save for Later feature using Swift and UIKit, optimizing TableView and CollectionView to efficiently handle large data sets, enhancing app performance and driving increased user engagement and repeat orders
- Designed intuitive animations for instant item removal and addition, creating a smoother and more engaging user experience
- Enhanced multi-screen navigation by implementing custom delegates, leading to smoother and more efficient transitions
- Used Go language to generate accurate output responses, ensuring distinct handling for Android and iOS platforms

Software Developer Intern | Codesis Technologies Pvt Ltd

(Jul'23 - Aug'23

A creative company specializing in unique, scalable products with a focus on user experience and branding

- Built custom admin panel in **Django** for efficient management and monitoring of Flivery app, a grocery delivery platform
- Implemented comprehensive Order form with CRUD features, enhancing user experience and order management
- Used prefetch functionality in views.js with APIs for faster asynchronous data retrieval for order-related actions

Android/C++ Developer Intern | MapIT.ai

(Jun'23 - Jul'23

MapIT.ai is an entrepreneurial initiative by the students of IIT Bombay

- Implemented Data Binding to improve code readability and connecting UI components and data models seamlessly
- Integrated Google Maps API into the application, enabling users to visualize and interact with maps, geolocation services
- Implemented RecyclerView for efficient handling of large datasets with minimal memory usage and smooth scrolling
- Actively participated in the app deployment process, working with the Play Store Console to prepare the application for release, including configuring release builds, managing app signing, and uploading app bundles or APKs

KEY PROJECTS —

Inter IIT App | Institute Sports Council, IIT Bombay

(Oct'23 - Dec '23)

- Implemented robust email OTP authentication, ensuring secure access and user verification within the application
- Used the EC2, S3 Bucket and Cloudwatch features of AWS and Postman for testing distributed software systems
- Created Node.js backend with a separate admin panel for streamlined functionality and efficient data management

Sports App | Institute Sports Council, IIT Bombay

(Dec'21 - May'23)

- Ideated and created a fully responsive platform web app using MEAN stack like news, daily blogs and new events
- Launched GC and Inter-IIT components for displaying live scores by critically modelling different formats of scores
- Successfully implemented SSO login in express so that app is only accessible to insti-users with no need of signing up
- Connected an admin panel to the backend which gives special access to the secretaries to keep the app data updated

Modern Helping Aid | Institute Technical Summer Project

(Apr'22 - Aug'22)

- Integrated object detection and distance sensors with voice message by pyttsx3, OpenCV and NumPy module
- Designed HTML Webpage to control camera frame with rotating motors for distance calculation with LiDAR
- Achieved **Special Mention** among **40+** projects for developing aid for visually impaired by voice communication

Social Media Website | Self Project

Mar'23

- Developed a full-stack social media platform using the MERN (MongoDB, Express, React, Node.js) Stack
- Created an Express server to handle server-side API requests, user authentication, and real-time notifications using Socket.io
- Implemented a real-time chat feature using **socket.io**, allowing users to engage in instant messaging feature
- Enhanced functionality and security in web application by implementing **Axios** interceptors for request headers and response data also incorporated features like **authentication tokens** and error handling for improved performance

3D Scan Volume Estimation | Course Project | Guide: Prof. Soham Majumdar (Jan'24 - Apr'24)

- Reduced errors by 20% through analysis of 100+ samples with hull & mesh methods on varying 3D scan shapes
- Applied ANOVA analysis on data to assess shape effects, validating hypothesis with pi0.05 significance level

- Implemented the front-end of the E Commerce website using **React Native**, including creating reusable UI components
- Employed React Router for smooth client-side routing, ensuring a seamless and intuitive user experience
- Utilized React's functional components and the useEffect hook to manage side effects and improve performance

Aavhan Website | Aavhan, IIT Bombay

(Dec'22 - Feb'23)

- Developed the portal using MEAN stack, consisting of personal as well as contingent registrations and accommodation
- Created an automated Entry-Exit system with personalized QR code delivery to visitors post-payment through RazorPay and utilized InstiScan, a React-Django app, for seamless QR code scanning and management
- Launched the website externally on Spheron servers, by creating a Docker image, witnessing a count of 6k+ visitors

My Notes Web App | Self Project

Dec'22

- Developed responsive front-end using **React**, creating reusable UI components for an enhanced user experience
- Built **Django** RESTful APIs for efficient **CRUD** on notes, ensuring seamless front-end to back-end communication
- Leveraged React components to fetch data from Django API, ensuring seamless note management for users
- Utilized React Hooks for state management and implemented browser router for seamless navigation in the front-end

Positions of Responsibility

Technical Head | Institute Sports Council, IIT Bombay

(April'23 - April'24)

Part of a 22 member team spearheading all the sporting activities of the Institute, catering to 15,000+ people

- Responsible for technical aid to 20+ sports activities, which involved deploying web portals and automising manual work
- Ideated and deployed portals like the Sports App and Grievance Redressal with 10k+ logins throughout the institute
- Created and hosted the Inter IIT App for Android and iOS, amassing 2.5k+ downloads for sports-related information

Web Coordinator | Techfest, IIT Bombay

(May'22 - Feb'23)

Asia's Largest Science and Technology Festival | Viewership:1,75,000+ | Events: 280+

- Member of the team responsible for development of the Techfest's official website that receives 5M+ hits annually
- Integrated Google Authenticator into the portal, ensuring secure data fetching from Google APIs in CA Portal
- Designed responsive History by integrating 3D Carousel plugin in JavaScript worth 350+ lines of code
- Designed and developed a responsive International Full Throttle (IFT) portal for Techfest's official website

SCHOLASTIC ACHIEVEMENTS

- Secured 99.55 percentile in JEE Main examination among 1 to 1.3 million candidates across India (2021)
- Ranked among the top 2.9 percentile in IIT-JEE Advanced among 0.15 million candidates across India (2021)
- Top 3 percentile in GUJCET Examination, showcasing proficiency in Physics, Chemistry and Maths (2021)
- Achieved international rank 134 in International Mathematics Olympiad (IMO) across world (2020)
- International rank 206 in National Science Olympiad (NSO), showcasing exceptional scientific aptitude (2020)

Courses Undertaken —

Computer Science Computer Networks, Discrete Structures, Computer Programming and Utilization,

Numerical Analysis, Logic for Computer Science

Data Science Linear Algebra, Introducing to Machine Learning, Data Analysis and Interpretation

Inter-Departmental Basics Of Electricity and Magnetism, Economics, Quantum Physics and Application

Technical Proficiency —

ProgrammingC, C++, Python, MATLAB, Java, Kotlin, Git, DSA, IATEXWeb DevelopmentHTML, CSS, JavaScript, MongoDB, NodeJS, Express, TypeScriptFrameworksBootstrap, Tailwind CSS, AngularJs, ReactJS, Django, FlutterSoftware skillsAndroid Studio, Figma, Adobe Premiere Pro, Canva, Jupyter

ML/DL Frameworks Numpy, Matplotlib, OpenCV, Pyttsx3, TensorFlow

Extracurricular Activities ___

Sports	• Completed one year long of professional training in Athletics under NSO	(2022)
Technical	 Worked in 4 member team in CodeWars competition is organized by WnCC, IIT Bombay Completed the HTML,CSS and Bootstrap DevTown Bootcamp and made Hotstar Clone Participated in SciComp General Championship as a proud representative of Hostel 5 (H5) 	(2022) (2022) (2022)
Social	• Completed 7 days long Prathmik Shiksha Varg in RSS (Rashtriya Swayamsevak Sangh)	(2017)