

Pratham Vaidya

Software Developer Engineer

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Experience

SDE 1, MERN Developer

Applore Technologies Pvt. Ltd.

August 2022 - Feb 2023

- Architected a secure and scalable system, implementing robust authentication, video call management, and media storage with cloud integration to ensure data integrity and user privacy for **E-Learning Software "Mentostar"**.
- Engineered a seamless e-commerce experience, including course management APIs, cart handler with complex order logic, and payment integration. Automated tasks through cron jobs for system maintenance and reliability.
- Enhanced user communication with a notification module and facilitated mentor verification through a systematic flow. Implemented a payroll management system for automated compensation based on engagement.

SDE Intern, MERN Developer

Applore Technologies Pvt. Ltd.

May 2022 - July 2022

- Implemented role and permission-based authorization system using NodeJS, ensuring secure access control and data protection. This granular system allows for precise control over user actions and data manipulation.
- Developed a comprehensive flow for the **Surveyor Management System: "Habitus platform"**, incorporating ticketing, citation, and polygon systems. This involved creating structured processes for issue tracking, resolution, and geospatial data representation.
- Achieved substantial optimization of an intricate data fetching API, specializing in retrieving extensive records. Significantly reduced response time from 4 seconds to 0.5 seconds, demonstrating an impressive **87.5% improvement** in efficiency, earning **Employee of the Month** recognition.

SDE Intern, Web Developer

Pricemate Online Services Pvt. Ltd. (Startup)

Sep 2021 - Dec 2021

- Engineered an intricate reward and wallet system in PHP, incorporating features such as fund transfers, money sending capabilities, and seamless redemption processes, ensuring a secure and efficient financial ecosystem within the **"DiscountKhojo E-Commerce"** platform.
- Implemented core functionalities in PHP, including a dynamic product catalog, coupon system, and a QR management system that intricately links offline printed coupons to specific shops, enhancing the platform's versatility and usability.
- Established a robust internal logic in PHP for seamless data retrieval from the WooCommerce database, optimizing queries and ensuring synchronized and efficient data access for the DiscountKhojo ECommerce platform.

Projects

Superbook - AI Notes & Book Writer (NodeJS | Typescript | MongoDB | React) [OPEN](#) ~ Award Winning Project, Hackout'23 ★

- Implemented depth book syllabus creation and personalized book content generation using Large Language Models (LLM), optimizing the process for Superbook. Integrated Redis for API optimization.
- Developed a unique approach to divide and generate book content in segments using LLM, improving efficiency and coherence. Implemented intelligent search and navigation systems for streamlined access.
- Enhanced user experience on Superbook by integrating notes directly into books, fostering a more interactive and personalized reading environment.

Urivu - Business Listing Website like JustDial (Freelance Project)

(NodeJS | Express.js | MongoDB | React | MySQL) [OPEN](#)

- Implemented a robust system for Urivu, encompassing intricate business, user, reviews, and category systems, ensuring seamless interaction and data management for over 100,000 businesses.
- Developed financial ecosystem with a wallet, reward, and payout system, providing users with secure and efficient means to manage transactions and incentives within the Urivu platform.
- Engineered advanced features, including location-based search, a dynamic sitemap service, and support for multiple authentication methods, enhancing user experience and accessibility on the Urivu platform.
- Wrote scripts to successfully migrate a vast MySQL database with over 2.5 million records to MongoDB, ensuring data integrity and optimized performance for the Urivu platform.

HIBH - Real Time Threat Detection Security System

(React | Django | Postgres) [CODE](#)

- Implemented a robust security tool using "Canary Token". Utilized React for the frontend, Django REST APIs for seamless communication, and Postgres for efficient data management. The system includes email alerts for real-time threat notifications.

Kunji - 1 minute Authentication Service

(NodeJS | Typescript | MongoDB | React) [OPEN](#)

- Free and Open Source Authentication Service allows developers to implement authentication and authorization systems in their new or existing project within a minute. Suitable for MVP, side projects or hackathon apps. Also used by [Superbook](#) for Login.
- Built OAuth based Authorization Server. Published multiple npm packages including React library and NodeJS Package for easy implementation of service. Designed easy to use responsive frontend for Kunji service management.

Education

Institute of Engineering and Technology, Sitapur, Uttar Pradesh
B.Tech - Computer Science

July 2020 - Present
Expected Graduation 2024

Sacred Heart Higher Secondary School, Uttar Pradesh
Physics, Chemistry, Mathematics with Computer Science

July 2005 - 2020
CGPA 7.12 in 12th

Technical Skills

Languages: Typescript, Javascript, C++, Python, PHP, Kotlin

Technologies: (MERN) NodeJS, Express, MongoDB, Postgres, MySQL, ReactJS, Tailwind, CSS, Ruby on Rails, Redis

Cloud Services: Amazon Web Services, Google Cloud Platform, Vercel

Interests: Cyber Security, Linux, System Design, Data Structures and Algorithms, Opensource

Certificates

- Internshala Cyber Security Training with 86% marks
- NodeJS Developer Course 2022 by ZTM - Udemey

Achievements

- **2nd Runner Up** in the [Hackout 2023](#) competition, showcasing proficiency in problem-solving, innovation, and development skills. 500+ Participants, hackathon organized at multiple IITs, DTU and Online Mode.
- Successfully identified and reported a critical SQL injection vulnerability in the backend software utilized by 5+ top Indian universities, including Abdul Kalam Technical University. The vulnerability granted full read, write access to the database, and even provided shell access to the operating system.
- Achieved **Employee of the Month** accolade at Applore Technologies during the first month of my internship, acknowledging outstanding performance and contributions.

Open Source Contributions

- Merged [#14078](#) PR in the library "Mongoose ODM". (NodeJS, Typescript)
- Merged [#5539](#), [#5540](#), [#5545](#), [#5543](#) PRs in WikiEduDashboard. (React, Ruby on Rails)
- Created PR [#20](#) in Rdj.exe. (React)
- Published jQuery Plugin [Blobinator](#). (Javascript, JQuery)
- Created Open Source [Admin Panel Template](#). (React, Tailwind)
- Created Kunji NPM Packages [kunji-react](#) and [kunji-node](#) for seamless kunji integration.

Hobbies

- Write Poetry.
- Ethical Hacking for fun. (Searching vulnerable applications on the Internet and providing a free Vulnerability Assessment to the owner to prevent any dangerous attacks)
- Open Source Contributions