

AAKASH TYAGI

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EDUCATION

All India Shri Shivaji Memorial Society's Institute of Information Technology Pune <i>B.Tech in Electronics and Telecommunication Engineering</i>	2020 - 2024 8.1/10 CGPA
Armed Forces Preparatory Institute Kolhapur CBSC	2018 - 2020 7.3/10 CGPA

WORK EXPERIENCE

Full Stack Developer Intern <i>The Glass Universe Pvt Ltd</i>	Oct 2023 – Jan 2024
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- Implemented advanced search functionality in platform, incorporating debouncing and throttling techniques; boosted performance by **18%** and significantly **decreased server load**, enhancing user experience and platform efficiency.
- Redesigned web pages with a focus on **responsiveness** and mobile friendliness ensure seamless user experiences across all devices, leading to an improvement of **20% in user retention**.
- Identified and **resolved critical bugs** in the website, enhancing the overall user experience.
- Implemented **caching mechanisms** for frontend resources to reduce server load and **improve response time by 26%**.

TECHNICAL SKILLS

Languages: Java, JavaScript, Typescript

Frameworks: ReactJS, NextJS, TailwindCSS, NodeJS and ExpressJS, Redux(Library), Docker, Git, GitHub

Databases: PostgreSQL (SQL), MongoDB (NoSQL), Redis

CourseWork: Operating System, Computer Network, DBMS, OOPS

PROJECTS

Delma: An Online Consulting Application 🔗Code 🔗Live	Sept 2023 – Dec 2023
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Tech Stack: MERN, Nextjs, Typescript, Redis

- Features include secure **appointment booking**, **document uploads**, **video calls**, chat, and an **integrated online store** for medication purchases resulting in a **30% increase in user engagement**
- Integrated search functionality leveraging techniques like **debouncing** to significantly **reduce server load**, resulting in a **20%** improvement in overall performance.
- Efficiently manage large datasets with **server-side pagination** and provide seamless browsing with **infinite scrolling**.
- Utilized **caching mechanisms** with **Redis** to optimize system performance, resulting in a significant improvement in **response time by 30%**

MindCraftAI: An AI Subscription-Based Platform 🔗Code 🔗Live	Jun 2023 – Aug 2023
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Tech Stack: Nextjs, Typescript, MySQL, OpenAI

- Developed a platform integrating various **AI tools**, including an AI-Powered Code Generation Tool, an AI-Driven Video, and Music Generation
- Maximized the efficiency of Next.js 14 by implementing **SEO** best practices and optimized **server-side rendering** for **fast loading times**, improving platform visibility and user engagement.
- MindCraAI uses a flexible pricing model, offering both free and subscription tiers. It also integrates **secure payment** functionality using **Stripe**, ensuring seamless and secure transactions for users.

ACHIEVEMENTS

Maharashtra Student Innovation Challenge (MSIC) 🔗

–1st Place District level Winners, Provided smart parking solution,providing real-time information on available parking spaces.

Smart India Hackathon (SIH) 🔗

–SIH-2022 finalist, Developed three custom forecasting models to analyse and predict natural gas prices from 2023 to 2028.

Leetcode 🔗

–Solved more than 500+ problems on data structures and algorithms (DSA).

Innovation Desk 🔗

–Secured 1st place, The objective of the solution should be to equip city administrators with effective management tools.