

# AAKASH TYAGI

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## EDUCATION

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

## WORK EXPERIENCE

<b>Full Stack Developer Intern</b> <i>The Glass Universe Pvt Ltd</i>	<b>Oct 2023 – Jan 2024</b>
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- Integrated search functionality into the platform, applying techniques like debouncing and throttling to optimize search queries. Achieved an **18%** increase in performance and significantly **reduced server load**.
- 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)  
**Databases:** PostgreSQL (SQL), MongoDB (NoSQL)  
**Developer Tools:** Postman, VS Code, Git, GitHub, IntelliJ Idea

## PROJECTS

<b>Delma: An Online Consulting Application</b> Code Live <i>Tech Stack: MERN, Nextjs, Typescript</i>	<b>Sept 2023 – Dec 2023</b>
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- Features include secure appointment booking, document uploads, video calls, chat, and an integrated online store for medication purchases.
- Implemented 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**.
- Implemented **caching mechanisms** to enhance system performance and improve response time by **30%**.
- After the consultation, patients can conveniently purchase prescribed medications directly through our **integrated online store**, with secure payment processing facilitated by the **Razorpay API**.

<b>MindCraftAI: An AI Subscription-Based Platform</b> Code Live <i>Tech Stack: Nextjs, Typescript, MySQL, OpenAI</i>	<b>June 2023 – Aug 2023</b>
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- 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)** Code  
–District level Winners, Provided smart parking solution,providing real-time information on available parking spaces.
- Smart India Hackathon (SIH)** Code  
–SIH-2022 finalist, Developed three custom forecasting models to analyse and predict natural gas prices from 2021 to 2026.
- Leetcode** Code  
–Solved more than 500+ problems on data structures and algorithms.
- Innovation Desk – 2023** Code  
–Winners, The objective of the solution should be to equip city administrators with effective management tools.