ABHINANDAN

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Experience

Caresept, CRM Provider (*Remote Software Engineer*)   Oct 2024 – Dec 2024

- Architected and delivered end-to-end **CRM** solutions driving business growth across European and Middle Eastern markets
- Spearheaded **Google OAuth** integration in **FastAPI**, resulting in **20%** boost in user acquisition and streamlined onboarding.
- Engineered high-performance Document Editor using **Tiptap** in **Next.js**, achieving **30%** increase in user engagement metrics
- Optimized data processing by implementing **bulk CSV** upload & **processing** with **csv-parser** and **Celery worker**, reducing processing time by **40%**
- Revolutionized customer communication by implementing **automated bulk email** system using Gmail API and **OAuth 2.0**, reaching **10,000+** customers
- Led **Progressive Web App** implementation ensuring cross-platform accessibility and offline functionality.
- Executed strategic SEO optimizations resulting in **45%** improvement in organic traffic and search rankings.
- Innovated comprehensive **Event & Calendar Management System** enhancing user scheduling efficiency by **25%**
- Championed responsive design and accessibility improvements, achieving WCAG **2.1** compliance, and 98 lighthouse score.

NextUI, Y Combinator S24 start-up (*Open-source Contributor*)   June 2024 – Aug 2024

- Achieved a personal offer from the CEO to join **NextUI** after making good number of significant contributions.
- Enhanced **Developer Adoption & Product Reach:** Delivered 7+ feature enhancements that significantly improved component flexibility and extensibility.
- **User Experience Enhancement:** Resolved 10+ bugs in essential components like Calendar, Table and Pagination, leading to directly improving the product's stability and usability.
- Enhanced **Developer Adoption & Product Reach:** Delivered 7+ feature enhancements that significantly improved component flexibility and extensibility.

SkilledUp, Noida (*SWE Intern*)   April 2024 - June 2022

- Engineered core features of enterprise Learning Management System serving **500+** users
- Implemented secure authentication system using **JWT** and **NextAuth.js**, achieving zero security incidents
- Optimized UI/UX resulting in **35%** reduction in user learning curve
- Developed high-performance Database Query Engine based on MongoDB and Express handling **~10,000** daily queries.

Project Work

- **Aven CRM**   GitHub   Low Level Design and Documentation

    - **Designed and deployed** a scalable and robust CRM solution tailored for real estate markets in Dubai, Canada, and the USA, empowering businesses to streamline operations and enhance customer engagement.

    - **Scalability & Uptime:** Architected the platform with Next.js, Node.js, Express, and PostgreSQL, achieving a **99.9% uptime**, ensuring uninterrupted service for high-stakes transactions.

    - **Email Automation:** Engineered enterprise-grade email automation system using Gmail API, capable of processing **500,00+** emails monthly

    - **Deployment Optimization:** Established a CI/CD pipeline with GitHub Actions and Docker, reducing deployment time by **70%**, and implemented AWS EC2 with auto-scaling to handle dynamic workloads efficiently

    - **SEO Impact:** Applied advanced SEO strategies, resulting in a **200% increase in organic traffic** and improved lead acquisition.

    - Implemented advanced SEO strategies resulting in **200%** increase in organic traffi

    - Developed military-grade authentication system using JWT and NextAuth.js, ensuring zero security breaches

    - Designed intuitive Event Management system reducing scheduling conflicts by **90%**

    - Created dynamic Template Editor enabling **60%** faster document creation

    - Delivered mobile-first responsive design achieving **95%** user satisfaction rate

- **Aarogya**   GitHub   Low Level Design and Documentation

    - Designed and implemented an **Asynchronous Appointment Scheduling System** using **BullMQ** and **Redis.**

    - Architected a **microservices-based scalable backend** with PostgreSQL and Prisma, ensuring real-time data accuracy and operational insights for hospital administrators.

    - Integrated **Twilio** to automate **SMS** and **WhatsApp notifications**, leading to **decrease** in **missed appointments** by keeping patients informed of booking details and status updates.

- **Modern UI Applications**: Rogil Pixa AI Convo Travelog SaaSy CourseSpace Travelog Bistro Brick

    - Increased **Engagement & Performance Gains:** Implemented Lottie-web, Framer Motion, and Swiper, boosting user interaction by **60%**, driving higher conversion rates. Enhanced content delivery using **Lodash** and **HLS.js**, reducing video load times by **30%.**

    - **Scalability & Speed:** Built **SEO-optimized** pages with **Next.js** and **TypeScript**, cutting load times by **25%** using static generation and **lazy loading & caching.**

- Integrated **Tailwind CSS, Next.js, JavaScript** as the primary tool for developing the application prototype
- **Image_Processor**   GitHub   API Documentation   Low Level Design
  - Implemented a high-performance **Asynchronous Image Processing Pipeline** which can handle
  - Architected a robust system using **Node.js, Express.js & MongoDB** ensuring *99.9% uptime* with **Error-handling mechanisms.**
  - Reduced image storage costs by 50% by implementing real-time **image compression** using **Sharp,** integrating with **Cloudinary** for scalable storage**.** Optimized CSV data processing, achieving a 70% improvement in processing speed through **concurrent workers and parallel execution.**
- **Finance** **:** A robust SaaS platform optimizing financial management for Banking & online transactions system.
  - **Scalable Performance:** Engineered a system capable of, with a modern, intuitive UI/UX that boosted user satisfaction by **20%.**
  - **Tech Stack: Next.js**, **PostgreSQL**, Hono.js, **Drizzle**, Recharts.js, Clerk Authentication, **Neon Database**, Tailwind CSS.

Skills

Languages: TypeScript, Python HTML, CSS, SQL, C, C++, MDX, Kotlin

Technologies & Tools: RESTful API, GraphQL, WebSocket's, HTTP, Docker, Kubernetes Git & GitHub, BullMQ, Redis, Kafka

- *Front-end -* **Next.js**, React.js, Tailwind CSS, Framer Motion, Three.js, Storybook.js, Jest, Figma
- *Backend -* Next.js, Node.js, Express.js, , Hono.js, FastAPI
- *Databases -* **PostgreSQL**, MongoDB, Prisma, Drizzle, SQLAlchemy
- *Cloud Services –* Civo, AWS
- *Authentication Services –* Clerk.com, Auth.js/NextAuth, JWT

Computer Science Fundamentals - **Data Structures and Algorithms**, Operating Systems, Object Oriented Programming (OOPS)

Education

JSS Academy of Technical Education, Noida (Computer Science and Engineering, CGPA-8.77)	Nov 2022 – Present
Dujana Public School, Noida (12th, **95.6%**)	July 2020 – May 2022
Nav Uday Public School (10th, **93.6%**)	July 2018 – May 2020

Awards & Achievements

- Reliance Foundation Scholar
- HDFC Badhate Kadam Scholar
- IYMC – Gold Honour
- 5 times National Defence Academy Exam Qualified