Mangesh Ahirrao

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Education

Iowa State University   Summer 2023
BS in Math and Economics, Minor in Computer Science   *Ames, Iowa*

Work Experience

Software Engineer Intern   Jan 2023 – July 2023
GlobalBees   *Remote*
- Developed an admin dashboard with React, **implementing RESTful API integration for real-time data visualization**, leading to a 20% boost in data accessibility and decision-making speed.
- Collaborated on UIs for dashboard and CMS using React Hooks, enhancing user interaction and contributing to a **15% rise in daily active users**.
- Improved system performance by refining SQL queries and implementing Redis caching, **reducing load times by 25%** and enhancing system responsiveness.

Software Application Developer   May 2022 – December 2022
Information Technology Services (ITS), ISU   *Ames, Iowa*
- Coordinated a 5-member team to upgrade web applications **leveraging React and Node.js** to enhance admin and academic workflows, **significantly improving key business workflows by 30%**.
- Enhanced security vulnerabilities and performance output by transitioning the project from JavaScript to TypeScript.
- Assisted in optimizing a 90% acceleration in deployment process with Jenkins, **enhancing CI/CD efficiency for front-end updates** and improving site reliability.

Front-End Developer   August 2020 – May 2021
Thielen Health Center, ISU   *Ames, Iowa*
- Built the RT-PCR test booking portal at Thielen Health Center using Java, Spring Boot, and React, improving UI.
- Implemented a **Java-based RESTful API** for online scheduling, reducing phone appointments by 50%.
- Created a responsive, ADA-compliant user interface, **boosting portal usage by 40%**.

Projects

DocuChatter-AI | **Live-Demo** | Code
- Developed a SaaS platform using Next.js 13, TypeScript, and OpenAI's GPT-3.5 Turbo API, enabling interactive AI conversations with uploaded PDFs, resulting in a 40% increase in user interaction with documents.
- Implemented tRPC and Zod for data fetching, LangChain for AI memory, and Pinecone for vector storage.
- Streamlined subscription processes with Stripe and crafted a user-friendly interface using shadcn-ui.

Collab | **Live-Demo** | Code
- Built a collaborative whiteboarding tool with Next.js 14, Tailwind CSS, and React to enhance remote teamwork.
- Integrated Clerk for authentication and Convex for real-time functionality, ensuring a secure user experience.
- Implemented a feature-rich toolset (text, shapes, sticky notes), boosting dynamic remote collaboration.

TaskMate | **Live-Demo** | Code
- Developed an AI-powered note-taking app with Next.js 13 and TypeScript, integrating OpenAI's GPT-3.5 Turbo API for advanced language processing.
- Implemented DALL·E API for image generation, storing results in Firebase for efficient data management.
- Utilized Drizzle ORM for efficient database interactions and Tailwind CSS for UI design.

StudyMigo | **Live-Demo** | Code
- Engineered a Learning Management System (LMS) with TypeScript, Next.js 13, and React, featuring course creation, student dashboards, and Stripe integration for payments.
- Implemented Mux for video processing, rich text editing for chapters, and Clerk for authentication.
- Utilized Prisma with MySQL for robust data management, ensuring a scalable and interactive learning experience.

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, PostgreSQL.
Frameworks and Libraries: React.js, Node.js, Spring Boot, Next.js, MongoDB, Express.js, Bootstrap, Tailwind CSS, Git/GitHub, Jenkins, VSCode.