KEDHARNADH

Software Engineer

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WORK EXPERIENCE

Junior Software Developer
NorthSouth GIS

📅 Mar 2023 – Jul 2024   📍 Hyderabad, India

- Engineered **dormitory, locker booking & room allocation modules** featuring a **config-driven UI** for Vasavi Trust **(VasaviTrust)**, enabling rapid adaptability across branches while automating **90%** of workflows and reducing allocation errors by **80%**.
- Implemented **optimistic concurrency control**, improving allocation accuracy to **85%+** during high-traffic periods.
- Provided an **authentication API module (Twilio-based OTP)** and an **Oracle DB logging service**, enabling cross-team integration and reducing production debugging time by **90%**.
- Delivered an internal **MVP — NSG PAD (Notes App)**, a secure notes platform with **user authentication**, CRUD APIs, and support for **user-defined, modifiable endpoints** to access notes.
- Integrated a rich-text editing experience using **CKEditor**, enabling formatted content creation and seamless note management.
- Optimized scalability with persistence on **MongoDB**, while delivering a responsive prototype UI using **React.js & Bootstrap**.
- **Tech Stack:** C#, JavaScript, Node.js, Express.js, React.js, jQuery, MongoDB, ASP.NET Web API, SQL Server, HTML, Bootstrap, CSS

TECHNICAL SKILLS

- **Core Areas:** DSA, System Design, DBMS
- **Languages:** Java, JavaScript, C#, Python, SQL
- **Frontend:** React.js (Redux Toolkit, Context API), Tailwind CSS, Bootstrap, HTML, CSS
- **Backend:** Node.js, Express.js, ASP.NET Web API, GraphQL, WebSocket, gRPC, REST APIs
- **Databases:** MongoDB, MySQL, MS SQL Server, NoSql
- **Cloud & Deployment:** AWS services, Docker
- **Tools & Automation:** Git/GitHub, Postman, Cron Jobs

ACHIEVEMENTS

- Achieved a **5-star rating** in Problem-Solving on HackerRank.
- Solved over **150+ coding problems** across multiple coding platforms.
- Led a team of **5 members** in developing the final-year Major Project, ensuring successful delivery with effective collaboration and problem-solving.

CERTIFICATIONS

- System Design, iNeuron (Link)
- Complete Web Development by Hitesh, Udemy (Link)

EDUCATION

B.Tech. (CSE) – 9.0 CGPA
RGUKT Nuzvid (IIIT)

📅 2019 – 2023   📍 Andhra Pradesh, India

PROJECTS

DevTinder – Developer Networking App

- **MERN Stack | Redux Toolkit | AWS (EC2, SES) | WebSocket (Socket.io) | JWT Cookies | DaisyUI**
- Architected a Tinder-style networking platform enabling developers to create profiles, send/accept requests, and engage in 1:1 real-time chat via WebSocket (Socket.io).
- Incorporated AWS SES with Cron Jobs for automated daily 8:00 AM email digests, deploying the system on AWS EC2 for reliability and scalability.
- Implemented secure cookie-based JWT authentication, managed client-side state with Redux Toolkit, and enforced consistency using the Singleton pattern.
- Crafted a responsive UI using DaisyUI, supporting live profile editing, theming, and dark/light modes.
- Github

LMS (Udemy Clone)

- **MERN Stack | PayPal | Context API | Tailwind | Shadcn UI | Cloudinary | JWT**
- Developed a full-stack LMS supporting instructor/student roles, authentication, and seamless PayPal payments.
- Facilitated course creation with category-based filtering and media storage via Cloudinary.
- Crafted a responsive frontend with TailwindCSS + Shadcn UI for dashboards and course pages.
- Hardened backend security using Helmet, CORS, express-rate-limit, HPP, mongoSanitize, and centralized error logging.
- Github

Sentiment Analysis on Code-Mixed Data

- **Python | TensorFlow | BiLSTM | Label-Studio | Doccano**
- Designed a BiLSTM-based model achieving **74% accuracy** for sentiment classification on English–Telugu code-mixed datasets.
- Curated and annotated a dataset using Label-Studio and Doccano to enhance model training quality.
- Formulated an NLP preprocessing pipeline (tokenization, embeddings, padding) optimized for multilingual challenges.
- Github