

# KEDHARNADH

## Software Engineer

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📍 Guntur, AP - India

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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 **Tailwind-CSS + 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](#)