Sundeep Reddy Nallamilli

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LINKED IN | GITHUB

SUMMARY

Creative and motivated Software Developer with a Master's degree in Computer Science, specializing in full-stack development, real-time communication technologies, and process automation. Proven ability to develop and implement innovative solutions that significantly improve efficiency and user experience. Experienced in working with both frontend and backend technologies, including React, JavaScript (TypeScript), Java, Python, Microservices, NodeJS, Kafka, Redis, and Spring Boot. Adept at collaborating with cross-functional teams and passionate about continuous learning and dedicated to contributing to the growth and success of forward-thinking organizations.

EXPERIENCE

Full Stack Engineer – Blockhouse, NYC **Sept 15, 2024 - Current**

- **Developed** reusable and scalable components for pages and dashboards using **Next.js (v14)** to enhance maintainability and performance.
- **Integrated** Next.js APIs and server actions to optimize data handling and improve application responsiveness.
- **Implemented** dynamic rendering strategies, leveraging **Client and Server Components** to enhance user experience.
- **Utilized** various rendering techniques, including **Server-side Rendering (SSR), Client-side Rendering (CSR), Static Site Generation (SSG)** to optimize performance and SEO.
- **Designed** responsive and consistent user interfaces using **Tailwind CSS** for an improved UI/UX experience.
- **Implemented** authentication and authorization mechanisms with **NextAuth (v5 beta)**, incorporating middleware for secure access control.
- **Managed** database interactions using **Prisma ORM with MongoDB**, enabling efficient CRUD operations.
- **Integrated Sentry** for real-time error monitoring, with automated alerts sent to teams via **Slack** for rapid issue resolution.
- **Configured** and maintained a **monorepo (Turborepo)** and set up **GitHub Actions** for automated build tests, ensuring code quality before deployment to production and key branches.
- Used version control using **Git**, creating and reviewing pull requests via **GitHub**.
- **Conducted** comprehensive **end-to-end testing** with **Cypress**, ensuring application stability and reliability.
- **Developed** cross-platform mobile applications using **React Native (Expo)** for **Android** and **iOS**, utilizing **EAS** for streamlined deployment to the **App Store** and **Google Play**.
- **Tested** native applications using **Android emulators, iOS simulators, and physical iOS devices** with Xcode, leveraging a personal Apple developer account.
- **Implemented** an email invitation feature for **password recovery** and **initial account creation**, improving user onboarding and security.
- **Leveraged AWS Amplify** to manage environment variables across multiple deployment branches, ensuring consistency across environments.

Tech Stack : Next.js (v14), Tailwind CSS, React Native (Expo), Radix UI | Next.js APIs (Server Actions), Prisma ORM, MongoDB | NextAuth (v5 beta), Middleware | SSR, CSR, SSG, ISR | Cypress, Sentry | Git, GitHub, AWS Amplify.

Software Engineer Intern – Data Sense **Feb 29 2024 – Sept 17 2024**

Portland, OR

- Worked with React, Tailwind CSS, and ShadCN to build modern, responsive web interfaces.
- Built reusable components to streamline development and improve code maintainability.
- Utilized React Context API for state management, allowing data sharing across multiple components.
- Implemented CRUD operations using Prisma ORM with a PostgreSQL database for efficient data management.

- Developed backend services using Node.js and implemented microservice architecture for scalable and decoupled systems.
- Ensured seamless integration between frontend and backend by adhering to RESTful API best practices.
- Optimized application performance and scalability by leveraging asynchronous programming in Node.js.
- Collaborated on version control with Git, following best practices in code review and pull request management.
- Used Postman for API testing and validation of microservice interactions.
- Followed Agile development methodologies, participating in sprints, stand-ups, and code reviews.

Tech Stack : React, Tailwind CSS, ShadCN, Prisma, PostgreSQL, Node.js, Microservice Architecture, Git.

Software Developer Intern – ValueLabs, Hyderabad **Feb 08 2022 – May 08 2022**

- Automated internal email processes, reducing manual effort by over 90%.
- Developed and maintained software features using Java and Selenium, contributing to improved system performance and reliability.
- Participated in code reviews and debugging sessions, ensuring the delivery of high-quality software.
- Enhanced skills in agile methodologies, teamwork, and technical documentation through active participation in project planning and execution.
- Gained practical experience in version control (Git) and containerization (Docker).

Tech Stack : Java, Selenium, Git, Docker, Agile methodologies, Code reviews, Debugging, Internal email process automation.

EDUCATION

Kennesaw State University, Georgia — Aug 2022 - Dec 2023
Master of Science in Computer Science — GPA:3.9

SRKR College of Engineering, India — Aug 2018 - Apr 2022
Bachelor of Science in Computer Science. — GPA:3.49

SKILLS

- Programming Languages : Java, Python, Javascript, TypeScript
- FrontEnd Technologies : HTML, CSS, Tailwind CSS, JavaScript , TypeScript , ReactJS , Next.Js, React Native(Expo) Socket.io , WebRtc
- Back End Technologies: Micro services, NodeJS , Kafka, Redis, Spring Boot, AWS
- Version Control : Git
- ORM: Prisma
- Error Monitoring : Sentry
- Containerization : Docker
- Databases : PostgreSQL, Mongo DB

PROJECTS

Group Video Call application

- Developed a group video call app utilizing React, WebSockets, and WebRTC, enabling seamless peer-to-peer communication post initial connection.
- Demonstrated ability to design and implement real-time communication systems.

Tech Stack : React JS, Simple-Peer JS, Socket.io, Express JS

WatchVerse : Video Streaming Service

- Developed a YouTube clone with Next.js for the frontend UI.

- Implemented three microservices: Transcoder Upload and Watch microservices in Node JS
- Utilized Kafka for asynchronous communication between microservices.
- Upload service handles video uploads, sending chunks to AWS S3 using multipart upload.
- Stored video metadata (S3 link, author name, title) in MongoDB.
- Transcoder service processes S3 links to create adaptive bitrate streams and updates MongoDB.
- Watch service retrieves video data from MongoDB and displays it on the frontend.
- Integrated AWS S3 for efficient video storage and handling.
- Enabled real-time video playback with options for different resolutions and bitrates.
- Ensured seamless user experience by handling video uploads, processing, and playback through microservices.

Tech Stack : Next JS, Node JS, Kafka, AWS S3, PostgreSQL, HLS for adaptive bit rate streaming.