

SUMMARY

Highly motivated software development professional with a two-year track record, seeking part-time or full-time opportunities to drive innovation and make an impact in a dynamic organization.

EDUCATION

University of Cincinnati , Cincinnati, Ohio

Aug 2023 -Dec 2024[expected]

Master of Science, Information Technology

GPA: 4/4

Velagapudi RamaKrishna Siddhartha Engineering college , Vijayawada, India.

Jul 2017-Aug 2021

Bachelor of Technology, Electrical and Electronics Engineering

GPA:8.6/10

TECHNICAL SKILLS

- **Core Skills :** TypeScript, JavaScript, React, Next.js, Node.js, Express.js ,Nest.js, MongoDB, ,REST API ,AWS ,Azure, Redis , Linux, WebSockets, GraphQL, DynamoDB, PostgreSQL ,Object-Oriented Design Principles, Data Structures, Algorithms, Operating Systems.
- **Languages and others :** C, Python , C#,HTML, CSS, Tailwind ,SCSS, SQL, PLSQL/NoSQL ,C++ , Java , OOP, Kafka ,Bash,
- **Tools and Methodologies :** Docker,Postman, DevTools, Microsoft office Suite, Agile Methodologies , Kubernetes , Git, Gitlab

WORK EXPERIENCE

TATA Consultancy Services - Assistant System Engineer

Aug 2021 - Jul 2023

- Built scalable front-end solutions using **React** for an absent management application by working closely with designers to ensure seamless integration of UI/UX designs
- Implemented website performance optimization resulting in reduced **page load time by 20%** and smoother interactions in web applications.
- Implemented client-side routing with **ReactJS, React Hooks,React Router and Redux** for state management along with a custom React hook library, leading to a 20% improvement in navigation speed and a more responsive user interface, demonstrating **JavaScript, ReactJS** proficiency.
- Engineered a highly scalable and fault-tolerant **microservices** architecture using **Node.js, Express.js, and GraphQL**, supporting a 200% increase in concurrent user interactions, showcasing advanced skills in micro-services.
- Spearheaded server and database development initiatives using **Node.js and MongoDB** . Ensured optimal performance, data integrity, and scalability for seamless user interactions, reducing data errors and response times by 20%.
- Implemented advanced caching mechanisms in **Express.js, utilizing Redis** to store frequently accessed data, resulting in a 40% reduction in database queries and significantly improving system responsiveness.
- Demonstrated proficiency in **TypeScript** by orchestrating the systematic refactoring of a legacy JavaScript codebase, resulting in a remarkable 25% reduction in bug occurrences, aligning with agile methodologies and continuous integration practices.
- Built SQL-based interfaces in UKG Workforce Integration Manager for MyHR database, improving data integration. Achieved a 9% reduction in processing time and a 17% increase in data accuracy for timely updates in the Kronos front-end system, reflecting problem-solving and collaboration skills.
- Demonstrated proficiency in **gRPC and HTTP(s) protocols**, contributing to a 30% improvement in server-client communication and a 25% enhancement in secure data transmission rates across various software projects.
- Led the optimization of cross-browser and device compatibility for a suite of web applications, achieving consistent user experience across 5+ major browsers (including Chrome, Firefox, Safari, and Edge) and multiple devices, resulting in a 20% increase in user engagement and a significant reduction in customer-reported issues
- Collaborated with cross-functional teams in an Agile environment to establish and maintain a centralized code documentation repository using Confluence streamlining accessibility leading to a 30% reduction in time spent searching for relevant information, demonstrating transparency and product development expertise.
- Extensive experience deploying applications on cloud platforms like AWS Stack (Amazon EC2)and GCP (Google App Engine), optimizing for scalability and reliability.Managed containerized applications using Kubernetes and Docker, enhancing deployment processes and environment consistency.
- Led the development of over **20 robust APIs(REST/SOAP API)**, prioritizing security and data protection measures. Implemented authentication and encryption protocols to safeguard sensitive information, emphasizing the importance of micro-services and software engineering in sustainable tech solutions.
- Managed version control for over 30 projects using **Git and GitHub**, reducing merge conflicts by 40%, and boosting team productivity and code quality, reflecting strong skills in software engineering and team collaboration.

RELEVANT PROJECTS

VLMS- An ed- tech platform - [Live here](#)

- Designed and developed an Ed-Tech platform using **TypeScript, Node.js, Express.js, MongoDB, and Next.js**
- Implemented a secure authentication system with **JWTs** and **OAuth** and also designed visually appealing and responsive user interface using **Tailwind CSS**, resulting in a 40% improvement in page load times.
- Crafted an Instructor dashboard enabling course publication, tracking metrics using **recharts**, feedback review, and student query handling all stored in **MongoDb** , leading to a 20% increase in instructor productivity.
- Leveraged **Redis** to enhance caching and improve system response time by 40% for frequently accessed courses and user data.

Skills Demonstrated :**MongoDb, Node.js, Express.js, Next.js, React, Tailwind CSS,Postman , Redis**

VCom-A multi-vendor e-commerce platform - [Live here](#)

- Built an E-Commerce platform using **TypeScript, React , Node.js, Express.js, MongoDB**
- Utilized React and Redux Toolkit for efficient state management, ensuring a smooth and responsive user experience.An admin Platform for vendors resulting in **30% reduction** in the time required for listing, managing, and selling products.
- A authentication system using JWTs and OAuth and also a payment method using Stripe API was implemented
- Utilized **MongoDB** as the database solution this led to a **50% improvement in data retrieval performance**, supporting product data, vendor information, customer profiles, and order records

Skills Demonstrated :**MongoDb, Node.js, Express.js, React, Tailwind CSS, Socket.IO, and Redux Toolkit,Stripe API**

Taskify - Task Management Application - [Live Here](#)

- Created a task management web application using **React, Node.js, and MongoDB**, facilitating task organization and collaboration among users, resulting in a 20% increase in task completion rates.
- Implemented task prioritization features resulting in a 30% increase in user productivity and task management efficiency.
- Implemented data encryption techniques to secure sensitive user information, bolstering data security and increasing user trust by 30%.

Skills Demonstrated: **React, Node.js, MongoDB, Bootstrap, Socket.IO, JWT, Express.js.**