Manohar Kakumani

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Developer with 2 years of experience in designing and developing high-performance web and mobile applications. Proficient in Frontend technologies React.js, React Native, and UI/UX development with expertise in state management (Redux), API integrations, and performance optimization. Strong background in backend development with Node.js, Flask, FastAPI, and cloud deployment (AWS, Docker, Azure). Passionate about building scalable, user-friendly applications with a focus on responsive design and modern web frameworks.

WORK EXPERIENCE

Gannon University   **Erie, PA, USA**
Graduate Teaching Assistant   *Sep 2024 - Dec 2024*

- Assisted in the setup, configuration, and management of self-hosted platforms, including Coolify, Penpot, Supabase, Minio, and Bolt.new (AI). Implemented Cloudflare Tunnels to establish secure connections to virtual machines, enhancing system reliability and security.
- Developed and deployed React.js front-end applications using Docker on virtual machines, optimizing containerization processes and reducing deployment time.
- Provided hands-on guidance and technical support to students in React.js development and Docker implementation, fostering a deeper understanding and increased proficiency in modern web technologies.

Freelance   **India**
Freelancer   *Jun 2022 - Jan 2023*

- Designed and developed scalable back-end services using Python, FastAPI, and Flask, implementing secure RESTful APIs that enhanced data retrieval speed and improved overall application performance.
- Deployed and managed cloud-based applications on AWS (including Amazon S3) and Microsoft Azure, optimizing resource utilization to reduce operational costs and enhance scalability.
- Configured and integrated SharePoint to streamline content management, improving team productivity through enhanced collaboration and automated workflows.
- Deployed and customized Jira on servers, optimizing issue tracking by creating tailored forms and integrating Jira webhooks with SharePoint, significantly reducing data collection and organization time.

Tata Consultancy Services   **Bangalore, India**
Assistant Systems Engineer   *Jan 2021 - Jun 2022*

- Developed and maintained enterprise-level React.js applications, leveraging modern JavaScript, React Hooks, and Redux to enhance user experience and improve application efficiency.
- Deployed applications on AWS (EC2, VPC, Load Balancers, S3) and configured CloudFormation templates to ensure consistent, repeatable, and secure setups.
- Optimized application performance by refactoring code, structuring components efficiently, and implementing responsive design principles, significantly reducing page load time.
- Integrated RESTful APIs, effectively managed application state, and collaborated with cross-functional teams to implement AWS environments, streamlining deployment processes.
- Provided hands-on technical support and proactive issue resolution, reducing frontend troubleshooting time and ensuring a smoother, more efficient development lifecycle.

EDUCATION

Gannon University   **Erie, PA, USA** | CGPA: 3.82/4.0
Master of Science, Information Technology   *Graduation Date: Dec 2024*

Koneru Lakshmaiah Education Foundation (Deemed to be University)   **Guntur, AP, India** | CGPA: 9.1/10
Bachelor of Technology, Electronics and Communication   *Graduation Date: May 2020*

SKILLS

Technical: JavaScript, ReactJS, React-native, ExpressJS, C, Python, Java, Elixir, HTML, CSS, REST API, Docker, MongoDB, MySQL, MariaDB, Database Design, webhooks, Git, GitHub, TCP/IP, Jira, Atlassian, Prompt Engineering, Generative AI, and LLMs Integration.

Data Analysis: Google Analytics, SQL, Microsoft Excel

Product Development: Agile, MVP Creation, Use case/UML, Rapid Prototyping

Design & UX, Wireframing: Figma, Sketches, Canva

Cloud Platforms: AWS, Azure

CERTIFICATIONS

- **Advanced React** (*Meta via Coursera)* | Credential: L558CEYR8UBC
- **Programming with JavaScript** (*Meta via Coursera)* | Credential: 9KJ81LQT47Z3
- **Version Control** (*Meta via Coursera)* | Credential: RMT8JMGPLQIF
- **HTML and CSS in Depth** (*Meta via Coursera)* | Credential: FXCKDBLV5HWQ

PROJECT EXPERIENCE

Personal Projects

Vehicle Breakdown Service App

- Developed a mobile app using MERN stack (MongoDB, Express.js, React.js & React Native, Node.js) to connect drivers with nearby mechanics or towing services.
- The app uses MongoDB's geolocation to find the closest service providers and Geoapify API for route planning. WebSocket enables real-time messaging between drivers and service providers, while users can easily book and manage service requests.
- The app integrates Stripe for secure payments, allowing users to pay for services within the app.
- JWT is used for secure user authentication, ensuring safe access to the platform.

Chat System

- Developed a full-stack video and text-based chat system using the MERN stack (MongoDB, Express.js, React.js, Node.js) along with WebRTC and WebSocket.
- This project demonstrates expertise in JavaScript programming for building real-time communication applications and integrating them with a database.
- The system allows users to engage in peer-to-peer video calls and instant messaging with predefined friends, showcasing skills in implementing real-time functionality and managing user relationships.

Mano: Networking Application

- Developed a networking application using Python, demonstrating proficiency in network programming.
- Implemented features for data communication, socket programming, and network protocol handling.

MyMo: A Byte Code Interpreter

- Created MyMo, a byte code interpreter written in C.
- This project showcases proficiency in low-level programming with C and involves the development of a bytecode interpreter.
- The interpreter is designed to execute bytecode instructions efficiently, demonstrating skills in system-level programming and understanding computer architecture.

Online Banking System: Terminal App

- Developed an Online Banking System as a terminal application using Java and SQL.
- This project demonstrates expertise in Java programming for building terminal-based applications and integrating them with a database.
- The system allows users to perform various banking operations through a command-line interface, showcasing skills in software development and database management.