

MANOHAR KAKUMANI

Erie, PA | 814-737-8574 | manoharkakumani@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

Gannon University, Erie, PA

Master of Science, Information Technology

Dec 2024

CGPA: 3.78

Koneru Lakshmaiah Education Foundation (Deemed to be University)

Bachelor of Technology, Electronics and Communications Engineering

May 2020

CGPA: 9.16

SKILLS

Technical Proficiency: JavaScript, React, React-native, Express, Tailwind CSS, Java, C, Python, Elixir, HTML, CSS, API Integration, REST API, Docker, System architecture, TCP/IP | **Data Analysis:** Google Analytics, SQL, Microsoft Excel | **Product Development:** Agile, Scrum, MVP Creation, Use case/UML, Rapid Prototyping | **Design & UX, Wireframing:** Figma, Sketch, Canvas | **PM Tools:** JIRA, Atlassian | **Project Management:** Agile, Scope Management | **Integration:** APIs, SDKs and webhooks, | **Cloud Platforms:** AWS, Azure | **Version Control:** Git, GitHub.

CERTIFICATES

- Hacker Rank certified Python developer.
- Hacker Rank certified Java developer.

EXPERIENCE

Graduate Teaching Assistant, Gannon University, Erie, PA, USA

Sep 2024 - Dec 2024

- Assisted students in overcoming technical challenges during hands-on labs and projects.
- Worked with self-hosted applications such as Coolify, Penpot, Supabase, Minio, and Bolt.new (AI), providing support for setup and usage.
- Used Cloudflare to create Tunnels to connect to VMs securely
- Developed front-end applications using React.js and deployed them on VMs using Docker for containerization and management.

Assistant Systems Engineer, Tata Consultancy Services, Bangalore, India

Jan 2021 - Jun 2022

- Deployed SAP solutions across diverse cloud environments, ensuring seamless integration.
- Assisted in selecting cloud environments for SAP deployments, leading to a 25% reduction in deployment time.
- Successfully managed and executed cloud migration projects with zero downtime, ensuring a smooth transition and minimizing disruption to business operations.
- Provided expert technical support and troubleshooting, reducing issue resolution time by 30%. Employed in-depth knowledge of system internals, log analysis, and debugging techniques to ensure rapid problem resolution.

PERSONAL PROJECTS

Vehicle Breakdown Service App (MERN Stack + Geoapify + Stripe)

Technologies Used: MongoDB, Express.js, React Native, Node.js, Geoapify API, Stripe API, WebSockets, JWT.

Functionality: Developed a mobile app using the MERN stack 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. WebSockets enable 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: (MERN STACK)

Technologies Used: MongoDB, Express.js, React.js, Node.js runtime, REST API, Tailwind CSS, WebRTC, Websockets.

Functionality: 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 WebSockets. 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 (Python)

Technologies Used: Python

Functionality: 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 (C)

Technologies Used: C

Functionality: 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 (Java, SQL)

Technologies Used: Java, SQL

Functionality: 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.

Online Voting System: Web Application (PHP, SQL)

Technologies Used: PHP, SQL

Functionality: Created an Online Voting System as a web application using PHP and SQL. This project highlights proficiency in web development and database integration. The system enables users to participate in online voting, showcasing skills in PHP scripting for dynamic web pages and SQL for secure database interactions.

AES: Block Cipher (Verilog)

Technologies Used: Verilog

Functionality: Developed an Advanced Encryption Standard (AES) block cipher in Verilog. This project demonstrates expertise in hardware description language (HDL) programming, specifically using Verilog for designing digital circuits. The AES implementation showcases skills in cryptographic algorithms and hardware design, providing a secure and efficient block cipher solution.

SUMMARY

Ambitious professional with 1.5 years of experience, showcasing strong organizational and multitasking skills. Tech-savvy with expertise in Linux Environments, System Deployment, Software Development, Programming, Mission Critical Applications, and Bug Fixes. I have a proven track record as a hard-working team member. I am ready to leverage my skills and experience to contribute to your company's success.