

THIRUPATHI RAO MEESALA

SOFTWARE ENGINEER

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Flagstaff, AZ, United States

SUMMARY

- **Software Engineer with 1+ year of professional work experience** demonstrating proficiency in Java, Python, JavaScript, and C++. Skilled in effective communication, collaboration, and introducing generative ideas to the team.
- **Active participant in an IoT (Internet of Things) hackathon**, focusing on creating connected objects and understanding IoT integration.
- **Led the organization and conduct of IEEE awareness programs for school students**, educating them on the benefits and opportunities in the field.
- Proficient in various **Spring Modules**, including **Spring MVC**, **Spring Core Container**, **Spring Web**, and **Spring AOP (Aspect-Oriented Programming)**.
- Strong foundation in **Object-Oriented Programming**, and proficiency in **Greedy Algorithms** such as Knapsack, Dijkstra's, 0/1 Knapsack, and N-Queen.
- Experienced in developing **dynamic web applications and Single Page Applications (SPA) using React**.
- Skilled in using **Mongo DB Atlas** through Compass for basic CRUD (**Create, Read, Update, Delete**) operations.
- Developed **web applications focused on transactions using Flask in Python**.
- Full-stack Web Developer proficient in **coding, developing dynamic web pages, server management**, troubleshooting, understanding application needs, team collaboration, and identifying customer requirements.
- Utilized **Tess4J for interfacing with Tesseract APIs** to extract text from images using Java.
- Led the overhaul of **website front-end development, supporting back-end programming**, which resulted in a 13% improvement in load times and a 19% increase in site stickiness, contributing to a significant 125% increase in web traffic.
- Experience with **J2EE Framework** components such as **Servlets, JSP, EJB, JDBC**.
- Knowledge on **MVC framework** like Spring/Struts and **ORM** tools such as **Hibernate**.
- Developed a 'Lights Out' **puzzle game using React and JavaScript**, requiring players to strategically toggle the states of lights on a grid and their adjacent counterparts to achieve the goal of turning on/off all lights.

PROFESSIONAL EXPERIENCE

Cognizant

Programmer Analyst

Hyderabad, India

Jan 2021 - July 2022

- I worked on the **News Portal Redesign** using **Java and JavaScript** for high-quality code development.
- I led a front-end overhaul with **React.js for a modern, responsive layout, utilizing HTML5 and CSS3** for dynamic media elements.
- I actively **participated in an agile development** environment, including **sprint planning, daily stand-up meetings, and retrospectives**.
- I achieved notable results by **boosting web traffic by 125%** through improved navigation, **dynamic media, virtual tours, and social media integration**. Additionally, I achieved a **13% enhancement in site speed and a 19% increase in user engagement**.
- My experience also includes **back-end programming using Node.js and Express.js**, with **MongoDB** for efficient data storage.
- I integrated **social media APIs** to enable content sharing functionalities and **implemented RESTful APIs** for smooth communication between **the front end and back end**.
- My experience showcases my **design skills, ability to achieve results, and proficiency in working with software technologies**.

EDUCATION

Northern Arizona University

Master of Science in Computer Science

Relevant Courses: R Programming for Modern Regression, Data and Text Mining, Web Technology, Principles of languages Intro in Python, Network Security, Cryptography and RapidMiner

Flagstaff, AZ

August 2022 - December 2023

Kalasalingam Academy of Research and Education ([Transcripts](#))

Bachelor of Technology in Electronics and Communication

Relevant Courses: VLSI Design, Python, Mat Lab, Digital Electronics, Network System.

Madurai, India

June 2018 - May 2022

SKILLS

Tools & Technologies: Java, Python, JavaScript, C++, C, Mat Lab, R Programming languages, React.js, Node.js, CSS, HTML, Data Structures and Algorithms, NoSQL, MySQL, TypeScript, Angular.js, SQL, Express.js.

Soft Skills: Problem Solving, Excellent Communication, Teamwork, Adaptability, Emotional Intelligence.

PROJECTS

- Developed a Python-based self-sanitizing system for COVID-19 prevention, integrating Arduino and ATMEGA328 with ultrasonic sensors and relay modules.
- Engineered a Java-based snake game leveraging the Java Graphics Library within Eclipse, enhancing user interaction and gameplay experience. ([View Code](#))
- Designed and implemented a university website using HTML, CSS, and JavaScript, focusing on responsive design and user-friendly navigation. ([View Code](#))
- Created a dynamic gaming website using HTML, CSS, and JavaScript, featuring interactive content and optimized for high user engagement. ([View Code](#))
- Constructed a blockchain-based transaction system using HTML, CSS, JavaScript for frontend development, and Python with Flask for backend processing. ([View Code](#))
- Developed a 'Lights Out' puzzle game using React and JavaScript, requiring players to strategically toggle the states of lights on a grid and their adjacent counterparts to achieve the goal of turning off all lights. ([View Code](#))

VOLUNTEERING

- Conducted Python workshops for over 30 students at Kalasalingam University, fostering programming skills and practical application knowledge.
- Hosted an interactive online seminar using Zoom to educate students on web page functionalities and digital literacy.

AWARDS

- Awarded the NAU International Excellence Award, recognizing exceptional academic achievements among international students.
- Crowned the season's champion in the school's running competition, demonstrating outstanding athletic prowess.