

Rithika Murali

Software Engineer

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PROFESSIONAL SUMMARY

- Microsoft azure certified **Software Engineer** with experience in Web Development, Computer Networking and UX design.
- Experienced in designing and deploying **scalable web services** using **React, Node.js, and Python**.
- Strong problem-solving skills with a visionary mindset, enabling innovative solutions to complex challenges.

TECHNICAL SKILLS

Languages: Python, C++, HTML/CSS, JavaScript, Typescript, SQL.

Databases: MySQL, PostgreSQL, NoSQL-MongoDB.

Cloud Infrastructure: AWS, Azure, Google Cloud Platform (GCP)

Operating Systems: Windows, Linux (Ubuntu, CentOS)

DevOps & Infrastructure: Linux, Kubernetes, Terraform, CI/CD Pipelines, Jenkins, Docker, Splunk

Developer Tools: JIRA, Postman, Git, GitHub, Android Studio, IntelliJ, PyCharm, Eclipse, Jupyter Notebooks, Figma

Technologies/Frameworks: ReactJS, Redux, Node.js, ExpressJS, Hibernate, AJAX, Bootstrap, ASP.NET

Methodologies: Agile, SDLC

WORK EXPERIENCE

Full Stack Developer | Engineering Club | University of Windsor / Windsor ON

Jan 2024 - Present

Tech: React, Node, NoSQL-MongoDB, UI/UX, Python

- Developed a user-friendly interface for an apple variety recommendation system using React.js, ensuring a responsive and intuitive design.
- Designed and implemented robust configuration management systems to ensure seamless integration of front-end and back-end applications

Full Stack Developer | Kone Elevators / Chennai India

Dec 2022 - Apr 2023

Tech: React, HTML/CSS, React testing library, Node, JavaScript

- Created **over 370 ReactJS components**, achieving a 97% test coverage using React Testing Library
- Collaborated with cross-functional teams to design and integrate APIs, resulting in improved data exchange and system interoperability.
- Implemented and maintained Restful services to improve the functionality of applications.
- Built intuitive user interfaces using HTML5, CSS3, and JavaScript, increasing user satisfaction.

Full Stack Developer | Rajalakshmi Institute of Technology / Chennai, India

July 2022 - Dec 2022

Tech: Deep learning Techniques, Convolutional Neural Networks

- Applied Optical Character Recognition (OCR) and Convolutional Neural Networks (CNN) to recognize and classify ancient inscriptions on stone artifacts.
- Enhanced image processing accuracy using segmentation, feature extraction, and Unicode mapping techniques.
- Utilized machine learning algorithms to improve predictive modeling and automate decision-making processes in software development.

PROJECTS

Protein Source Compliance Analysis / [link](#)

Tech: React, HTML/CSS, UI/UX, Python, Supervised Learning (ML)

- Developed a React-based user interface for an automated protein compliance verification system, allowing users to upload Excel files and receive regulatory assessment reports based on FDA guidelines.
- Implemented agile development methodologies to improve software delivery times and quality.

Automobile Price Analysis / [link](#)

Tech: Java, Selenium, JavaScript, HTML/CSS, Web Scraping & Data Parsing

- Implemented web crawlers using Selenium and utilized HTML Parsing and advanced data structures to compare car prices across multiple dealership websites.
- Designed an interactive front-end interface to present aggregated car data in a user-friendly comparison tool.
- Enhanced user experience by implementing dynamic filtering and sorting features, enabling efficient car price and feature comparison.

EDUCATION

Master of Applied Computing | University of Windsor, Windsor, ON

Jan 2024 - Present

Bachelor of Applied Computing | Rajalakshmi Institute of technology, Chennai, India

Sept 2019 - April 2023