

Rohith Kumar Saravanan

Fredericton, NB, Canada

“Aspiring Software Engineer | Master’s in Computer Science | Ex-Digital Specialist Engineer at Infosys | Full Stack Development Specialist Committed to Innovation and Excellence”

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Full Stack Developer with 3 years of experience in developing scalable software solutions. Currently pursuing a Master’s in Computer Science at the University of New Brunswick, focusing on AI, Machine Learning and Data Science. Skilled in developing high-performance, maintainable software and solving complex problems in dynamic environments. Thriving to solve complex challenges and aiming to contribute to innovative, results-driven projects. Passionate about applying modern development practices to create impactful solutions.

Education

University of New Brunswick, Fredericton, NB, Canada

Sep 2023 - Dec 2024

Master’s degree, Computer Science (GPA: 4.1)

Focused on advanced software development, cybersecurity, and management courses, such as Advanced Software Process, Quality Management, and Data Analysis. Equipped with a strong understanding of technical and strategic computing aspects.

Sree Vidyanikethan Engineering College (Mohan Babu University), India **Aug 2016 - May 2020**

Bachelor’s degree, Computer Science and Systems Engineering (GPA: 8.26)

Built a solid foundation in software engineering, algorithms, and system architecture, with hands-on experience in developing scalable and efficient software solutions.

Experience

Infosys

Hyderabad, Telangana, India

Digital Specialist Engineer (Latest)

Sep 2020 - Aug 2023

As a Digital Specialist Engineer at Infosys, Delivered innovative software solutions that enhanced operational efficiency and client satisfaction, while following best practices in QA processes and methodologies to ensure software reliability and quality. My key contributions included:

- **Full-Stack Development & Feature Enhancements:** Led enhancements for a warehouse management system using AngularJS and .NET Framework, working independently to deliver new features. Deployed the project via IIS, improving operational efficiency by 25%.
- **CPQ System Development & Optimization:** Built and optimized a real-time Cost Price Quote (CPQ) system using .NET Core, Angular, and Microsoft Azure, allowing escalator/elevator customization. Developed a verification engine, reducing configuration errors by 40% and enhancing code efficiency by 30%.
- **AI-Powered Backend Development:** Designed Flask and Flask-RESTful APIs for a government infrastructure project, enabling an AI-driven system to determine cost-effective internet connection routes. Optimized API response times by 35%.
- **Enterprise Data Migration & Integration:** Developed a data migration gateway for transitioning enterprise users from Google services to Microsoft services using Node.js, ensuring a 99.9% data transfer success rate with zero downtime.
- **Cloud & Database Optimization:** Deployed applications on Microsoft Azure and IIS, managing PostgreSQL, MySQL, and MS SQL databases, optimizing queries and indexing to enhance performance by 40%.

Projects

- **Recognizing Emotions in Poems using BERT:** This project applies NLP techniques to classify emotions in Shakespearean-level poems into seven categories: Anger, Disgust, Fear, Joy, Neutral, Surprise, and Sadness. By fine-tuning BERT on the Kaggle Poem Dataset (450 labeled poems) with Hugging Face, the project demonstrates improved accuracy compared to traditional models like Naive Bayes and Logistic Regression. Despite its advantages, the BERT model encounters challenges in handling the figurative language of poetry.
- **Machine Learning-Based Mobile Adware Detection and Classification:** Developed a machine learning-based solution for detecting and classifying mobile adware using the CIC-AndMal2017 dataset. Utilized XGBoost and Random Forest algorithms, achieving superior accuracy over traditional detection methods. Built a Flask-based interface and API, focusing on creating scalable, adaptive solutions to enhance mobile security for vulnerable users.
- **Secure File Sharing System:** Developed a web-based platform with AES encryption for secure file storage and transmission. Built using Flask, SQLite, and JWT to ensure data confidentiality and user authentication.

Extracurricular Activities

Indian Society for Technical Education (ISTE)

Aug 2017 - Apr 2020

Student Member

Contributed to various technical education initiatives aimed at enhancing student learning and engagement. Actively participated in workshops and events that promoted collaboration among engineering students and industry professionals.

National Service Scheme (NSS)

May 2018 - Jul 2019

Participant/Member

Engaged in social service activities, including participating in plantation programs to promote environmental awareness and community service, fostering social responsibility and teamwork.

Mohana Mantra

Aug 2016 - May 2020

Volunteer

Volunteered in organizing various events at Mohana Mantra, the university's annual fest that featured sports tournaments, technical workshops, lab sessions, and cultural events such as DJ nights. Also participated in multiple competitions and activities.

Certificates and Awards

You can view all my certificates and awards by accessing the following link:

https://drive.google.com/drive/folders/1ABsEAXpsBcIXlUugLTwSl4_ggxudxoqB?usp=drive_link.

Skills

Python | Java | C | C++ | TypeScript | JavaScript | HTML | CSS | Flask | Flask-RESTful | C# | .NET | Angular | SQL | MySQL | NoSQL | MongoDB | PostgreSQL | Machine Learning | Data Analytics | Big Data | Node.js | Django | Pandas | Scikit-learn | Postman | Azure | Git | GitHub | Jira | Visual Studio Code