

Rahul Malu

Full Stack Development Engineer

+91 7980587146 | rahulmalu1998@gmail.com | | [GitHub](#) | Bangalore

PROFESSIONAL SUMMARY

Full-stack web developer with 3 years of experience specializing in designing intuitive user experiences and building scalable web solutions. Proficient in full-stack development, API design, and CI/CD pipelines, with expertise in React, Node.js, and AWS.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, Java

Frameworks: React, React-query, Express

Frontend: JavaScript, TypeScript, React, HTML, React-query

Backend: Node.js, Express, Python, C++, MySQL, MongoDB, Java

Tools: Git, Mocha, JWT, LaTeX, PowerBI

Databases: MySQL, MongoDB

Platforms: AWS-S3, Docker, Kubernetes, Dynatrace, Jenkins, CircleCI, Grafana

PROFESSIONAL EXPERIENCE (3+ Years)

Full Stack Development Engineer

Jul 2022 - Present

Enphase Energy

Bangalore

- Designed and implemented an API gateway using Node.js, enabling seamless integration of internal API features into clients' CRM systems.
- Maintained comprehensive API documentation using OpenAPI and React SPA, improving developer onboarding and usage efficiency.
- Achieved 97% test coverage for public APIs by writing extensive unit tests using Mocha and integration tests via Postman, integrated with CircleCI CI/CD pipelines.
- Developed a PDF converter gateway using Puppeteer to convert browser-rendered quotes to PDFs, asynchronously storing files in AWS S3 with metadata managed in MongoDB.
- Built responsive UI features such as subscription/pricing sections and third-party integrations using React and MaterialUI, enhancing user experience.
- Automated API monitoring dashboards using Dynatrace and Python for log monitoring, resulting in a **{{20-30%}}** improvement in average API response times measured via Apache JMeter.

PROJECTS

Phonocardiogram (Heart Sound) Processing and Classification

May 2021 - Feb 2022

IIT Kharagpur

IIT Kharagpur

- Segmented heart sounds of patients into cardiac cycles using signal processing techniques such as autocorrelation, enveloping, and thresholding.
- Built 2D representations of signals using Spectrograms and Scalograms, and applied deep learning models like 2D CNN and BiLSTM for classification, achieving an accuracy of 92% with the BiLSTM attention-based model.
- Authored a detailed Master's thesis using LaTeX, incorporating complex charts, figures, styles, and references.

EDUCATION

B.Tech + M.Tech (Dual Degree) in Instrumentation Engineering
(Minor in Computer Science and Engineering)

2017-2022

CGPA: 8.4/10.0

IIT Kharagpur, India

ACHIEVEMENTS

- 2024: Finalist, Enphase Ennovate Hackathon – Designed a RAG-based AI chatbot using Generative AI for customer support.
- 2021: Semi-finalist, Flipkart GRID Challenge – Built an AI model to analyze marketing data and calculate customer lifetime value.
- 2019: 2nd Place, Open IIT Hackathon – Developed a classification model to identify weather trends with 90% accuracy.

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