

# Rahul Vanchate

## Software Developer

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## Professional Summary

Experienced Full Stack Developer with 5 years of expertise in designing, developing, and deploying scalable web and mobile applications. Skilled in integrating Machine Learning models and LLMs into software systems, enhancing functionality with AI-driven solutions.

## Work Experience



### Graduate Research Assistant

Old Dominion University, Norfolk VA

*October 2023 – present*

- Currently working with Full Stack Web Applications using FastAPI, React.js and MongoDB, Mobile Applications using Flutter and Android Debug Bridge, LLM Integrations [OpenAI, Gemini, Llama] and other external Twilio Integrations.



### Software Developer

Xebia, Hyderabad

*July 2022 – August 2023*

- Leveraged Hibernate (Backend) and Google Web Toolkit (Frontend) within an MVC architecture to implement complex calculation-heavy workflows, improving system efficiency by 20%.
- Developed and maintained the External Integration module of Plexus, enabling seamless communication between multiple applications through configurable APIs.
- Optimized database interactions in SQL Server Management Studio, reducing query execution time by 30%, leading to faster data processing for large-scale computations.



### Associate Software Developer

coMakeIT Pvt Ltd.

*December 2020 – June 2022*

- Contributed to the development of CableMES, a Cable Manufacturing Execution System (MES) product for Cimteq Ltd., using Spring Boot, Spring Data JPA, Hibernate, JavaScript, and MSSQL Database.
- Designed and implemented core backend modules, improving data processing efficiency by 25% through optimized database interactions and streamlined workflows.
- Developed a Selenium Regression Suite to automate testing, reducing manual testing time by 40% and ensuring consistent product quality across multiple releases.



### Software Engineer Intern

coMakeIT Pvt Ltd.

*July 2019 – November 2020*

- Worked on bug fixes and developed RESTful APIs for a project using Java 8, JPA, Hibernate, Spring Boot, and MySQL, within an MVC architecture, ensuring scalable and efficient backend solutions.

## Skills

- Java, Python, JavaScript
- React.js, HTML, CSS, SCSS, Google Web Toolkit
- Spring Boot, Hibernate, JPA, J2EE
- MySQL, MSSQL, MongoDB, Liquibase
- REST, SOAP API Services, Data Structures
- Git, Jenkins, Docker, JIRA, CI/CD Pipelines
- Selenium, Postman, Maven, FastAPI, Flask, Node.js
- Flutter, Android Debug Bridge (ADB), Unity
- OpenAI API Integrations, Twilio API Integrations
- Agile, Scrum, Microservices

## Education

### **Master of Science in Computer Science**

Old Dominion University, Norfolk VA

*August 2023 - currently pursuing*

*GPA : 4.0*

### **Bachelor of Technology in Computer Science and Engineering**

CMR Technical Campus, JNTU, Hyderabad

*Year of Graduation: 2020*

*CGPA : 7.5*

### **Johnson Grammar School, ICSE, Hyderabad**

*Pass out year: 2014*

## Projects

**Automatic Irrigation System [IOT]** Developed an Automatic Irrigation System using IOT which can be used by farmers or Greenhouses to water plants depending on temperature using various sensors.

**Digital Library using Elasticsearch and OpenAI Chatbot** Developed a Digital Library which ingests 500 ETD's to Elasticsearch using Java, the OpenAI chatbot is fed all these ETD's and in turn responds to all the questions asked.

### **Medical Emergency Predictor [Machine Learning]**

System which Predicts Medical Emergencies Using machine learning techniques to analyze real-time patient data and predict emergency events (like seizures or heart attacks), providing timely alerts for doctors.

**Emotional Text to Speech Engine [Artificial Intelligence]** Developed a Text to Speech Engine using Google's Text to Speech services, Elevenlabs and a RoBERTa based emotion classification model which can convert text into speech using custom SSML for every sentence.

**Meeting Room Booking System [Java]** Developed a Mini Project known as Meeting Room Booking System which uses Java 8, JSP and MySQL to book a Room for meeting services in different corporate offices