RAVVALA SOMASEKHAR

email | +91 9948456915 | linkedin.com/in/rsomasekhar | Tirupati, India

WORK EXPERIENCE

Software Engineer Jr, Cognizant Technology Solutions   Sep 2023 - Present

Client: AIG Insurance
Role: Java Full stack Developer with a focus on Generative AI and Prompt Engineering
Key Responsibilities:

- Exploring GenAI tools and applying various prompting techniques and tested within code companions, such as Copilot and Code Whisperer, to determine the most effective ones for different phases of the SDLC to enhance developer productivity.
- Developed and implemented IDE plugins, extensions, and utilities designed to assist developers in coding, optimization, upgradation, testing, and deployment, streamlining workflows and improving overall project outcomes, significantly reducing costs and efforts.
- Collaborated with global teams, including GenAI experts, actively participating in meetings and scrums. Presented research findings and demonstrated AI-driven applications to clients for approval and feedback.
- Engaged with clients through regular demos and feedback sessions, ensuring the developed solutions met their requirements and expectations.

POC - Prompt Library Extension | VS Code | Spring Boot | Angular | JS   Aug 2024 - Sep 2024

- Developed a VS Code plugin using node modules to create a Copilot prompt library extension, streamlining developers' workflow.
- Built a backend with Spring Boot and an admin portal with Angular, where prompt engineers can upload prompts.
- Implemented an authentication and approval system, allowing only admins to approve the prompts.
- Integrated a key-value system allowing developers to use the approved prompts directly in the IDE through the VS Code extension.
- Conducted a demo for the client and obtained approval for the project.

Java Full stack Engineer Intern, Cognizant Technology Solutions   Jan 2023 - Jun 2023

- Developed Java based full stack application as part of a 6-month training program at Cognizant.
- Acquired proficiency in User Interface Design, Maven, Gradle, Spring, Spring Boot, Spring REST, Hibernate, Junit5, Microservices, Angular and Business Communication Proficiency.
- Collaborated in development and testing of applications to meet client requirements and maintained an impressive 97% on-time project completion rate.

PROJECTS

Interview Bot Application | OpenAI | Spring boot | Angular | NodeJS   Dec 2023 - Feb 2024

- The AI Enabled Interview Tool revolutionizes the interview process by eliminating the need for manual intervention, thereby reducing costs and manpower.
- A backend chat system with Angular, NodeJS and MongoDB including voice integration mechanism and also a client application for interviewees using Spring boot, Angular and MySql.
- Implemented login functionality and interview scheduling features and integrated report viewing capabilities post-interview completing.

Community Ride Sharing App   Jan 2023 - Jun 2023

- Built a JE Application for a Community Ride Sharing in collaboration with a team of 4 members.
- Designed and created modules for ride providers, ride seekers, bill management and trip management.
- Ensured independent deployability of all microservices, utilizing a local web server Apache Tomcat;
- Front-end is built using Angular.

Emotion Based Music Recommendation – ML | Python | Django   Dec 2022
- Designed and implemented music recommendation app by detecting facial expressions in 5-person team as a lead.
- Utilized different datasets like FER2013 and proposed analysis to achieve improved accuracy of 87%.
- Enabled users to be recommended songs based on 7 kinds of moods;
- deployed web app using Django framework.

TECHNICAL SKILLS

AI and Companion Tools: Prompting Techniques, Copilot, Code Whisperer, Integration of OpenAI and Gemini models in applications

Programming Languages: Java, Python

Java Technologies: Spring Core, Spring Boot, Spring REST, Spring Security, JDBC, Hibernate, Microservices

Testing Framework: JUnit, Mockito

Database Technologies: MySql, MongoDB

Web Technologies: HTML, CSS, JavaScript, jQuery, Bootstrap, Angular.

Other: Django-Framework, NodeJs, Data Structures; Version Control: Git & Github.

Tools: Maven, Gradle, Git, VS Code, Eclipse, Postman and Visual Paradigm.

EDUCATION

Bachelor of Technology, Computer Science & Systems Engineering   2019 - 2023
Sree Vidyanikethan Engineering College, Tirupati, India
Cumulative GPA: 8.7/10

Intermediate - Mathematics & Science   2017 - 2019
Sri Chaitanya Junior College, Tirupati, India
Cumulative GPA: 9.8/10

COURSES & CERTIFICATIONS

- Microsoft Prompt Engineering – Java
- Microsoft GitHub Copilot - Java Developer
- Python Programming (Microsoft)
- AWS Cloud Fundamentals (AWS Academy)
- Java Full Stack with Spring Boot & Angular (Udemy)
- Microsoft Amazon Code Whisperer – Java Developer
- Design Microservices Architecture Patterns & Principles
- Industrial IOT 4.0 (NPTEL)

ACTIVITIES & EXTRACURRICULAR

Conference Presentation
- Participated in National Conference on Knowledge, Innovations, & Technologies for Sustainability (NCKITS - 2022)
- Presented an innovative idea titled "A Marketing Application for Farmers" with a team of 5 members as lead, achieving 1st place in the college-level competition.

Subject Matter Expert | Chegg
- Solved computer science problems for students on Chegg, providing specialized knowledge and earning compensation for each solution.

College Event- Volunteer
- Organized and coordinated "MohanaMantra" a student fest, with the collaboration of 200 students.
- Participated in data entry, presentation, advertising and conducted event by attracting over 5000 participants.