# RAVVALA SOMASEKHAR

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## WORK EXPERIENCE

**Junior Software Engineer, Cognizant Technology Solutions**  Sep 2023 - Present

**Client**: AIG Insurance
**Role**: Java Full Stack Developer with expertise in Generative AI and Prompt Engineering
**Key Responsibilities**:

- Pioneered various Generative AI and prompting techniques within code companions, such as Copilot and Code Whisperer, optimizing different phases of the SDLC and enhancing developer productivity by 30%.
- Created IDE plugins, extensions, and utilities leveraging Generative AI to assist developers in coding, optimization, upgrading, and testing, streamlining workflows and reducing costs by 20%.
- Collaborated with global teams and Generative AI experts, actively participating in meetings, brainstorming sessions, and knowledge-sharing activities to foster continuous learning and innovation.
- Engaged with clients through regular demos and feedback sessions, gathering requirements, securing approvals, and ensuring the developed solutions met their expectations.

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

- Developed a VS Code plugin using Node.js modules to create a Copilot prompt library extension, enhancing the IDE's functionality and streamlining developers' workflows by 15%.
- Architected a backend with Spring Boot and an admin portal with Angular, enabling prompt engineers to upload and manage prompts.
- Implemented an authentication and approval system, allowing only admins to approve the prompts.
- Integrated a key-value system, enabling developers to use the approved prompts directly in the IDE through the VS Code extension.
- Presented the solution to the client, securing project approval.

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

- Developed a Java-based full stack application as part of a 6-month training program at Cognizant.
- Acquired proficiency in User Interface Design, SQL, Maven, Gradle, Spring Boot, Spring REST, Hibernate, JUnit 5, Microservices, Angular, and Business Communication.
- Worked collaboratively in the development and testing of applications to meet client requirements, maintaining an impressive 97% on-time project completion rate.

## PROJECTS

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

- Transformed the interview process with an AI-enabled tool, reducing costs by 25% and manpower by 30%.
- Engineered a backend chat system with Angular, Node.js, and MongoDB, including voice integration, and a client application for interviewees using Spring Boot, Angular, and MySQL.
- Implemented login functionality, interview scheduling features, and integrated post-interview report viewing capabilities.

**Community Ride Sharing App**  Jan 2023 - Jun 2023

- Engineered a Java application for 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 using a local web server, Apache Tomcat.
- Developed an Angular-based dashboard for ride registration, booking, and viewing ride history and payment details.

**Emotion Based Music Recommendation – ML | Python | Django** Dec 2022
- Led a team of 5 to design and implement a music recommendation app by detecting facial expressions.
- Utilized datasets like FER2013 and proposed analysis to achieve an improved accuracy of 87%.
- Enabled users to receive song recommendations based on 7 kinds of moods.
- Developed a Django-based web app for user registration, login, and facial expression detection to suggest songs

## 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:** SQL: MySQL, PostgreSQL; NoSQL: MongoDB

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

**Frameworks and Libraries:** Django, Node.js

**Version Control & CI/CD**: Git, GitHub, Jenkins

**Tools:** IDEs: Eclipse, IntelliJ, VS Code, PyCharm; Build Tools: Maven, Gradle; API Testing: Postman; Modelling and Design: 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 the National Conference on Knowledge, Innovations, & Technologies for Sustainability (NCKITS - 2022) and led a team of 5 members to present an innovative idea titled "A Marketing Application for Farmers," achieving 1st place in the college-level competition.

**College Event- Volunteer**
- Organized and coordinated "MohanaMantra," a student fest, in collaboration with 200 students, managing data entry, presentation, and advertising, and successfully attracting over 5000 participants.

## AWARDS & RECOGNITIONS

**Associate of the Month**
- Awarded at Cognizant Technology Solutions for outstanding performance and contributions to the team. Recognized for passion and commitment to excellence, particularly for the work on GenAI POCs and beyond.