

# Sai Sri Rama Khandavilli

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## Career Summary

Java Full Stack Developer with 5+ years of experience building scalable applications using Java, Spring Boot, Spring Security, and RESTful APIs within microservices-based architectures. Skilled in developing responsive front-end interfaces with Angular and React, supported by robust backend services and optimized database design using PostgreSQL. Experienced in CI/CD pipelines with Jenkins. Ensured code quality using JUnit for automated testing and SonarQube for static analysis. Created conversational chatbots using Azure Bot Service, LUIS, and QnA Maker, and integrated a Python Django-based chatbot with an Angular front end, leveraging TensorFlow and Keras LLM models for intelligent responses.

## Skills

**Backend:** Java, Spring Boot, Python Django, REST APIs, Microservices, Hibernate

**Frontend:** Angular

**DevOps & Tools:** Jenkins, GitLab, Maven, JUnit, Mockito, SonarQube, PowerBI

**Cloud & AI:** Google Cloud Platform (GCP), Azure Bot Service, Azure Cognitive Services

**Database:** PostgreSQL, SQL, Database Design, ORM Mapping

**Languages:** English, Japanese (JLPT N3)

## Professional Experience

### Java Full Stack Developer - Tata Consultancy Services (TCS)

Oct 2020 – Nov 2025

- Collaborated cross-functionally with QA teams and product owners using JIRA to triage, track, and resolve 20+ defects per release cycle, while delivering 3-5 user stories per sprint in an Agile environment.
- Developed and enhanced 20+ application features using Java, Spring Boot, and Angular, converting business requirements into production-ready code and contributing to improved application stability and reduced defect leakage.
- Built an AI-powered chatbot using Python, Django, LLMs, and Generative AI prompt engineering, enabling automated conversational workflows and reducing manual query handling by 30–40%.
- Designed and implemented relational database schemas in PostgreSQL and developed persistence layers using Hibernate, supporting thousands of records per module while ensuring data integrity and efficient query execution.
- Deployed applications across multiple client environments using Apache Tomcat, and created repeatable installer packages with InstallAnywhere, reducing deployment inconsistencies and manual setup effort by 25%.
- Authored and maintained JUnit-based unit test suites with 100% code coverage for owned modules, significantly reducing regression issues and improving code reliability across releases.
- Managed source code using GitLab, leveraging integrated CI/CD pipelines to automate builds, testing, and deployments, reducing manual release effort by 30–40% and improving delivery consistency.

### Business Intelligence Intern - Spikewell Ltd.

Sep 2019 – Nov 2019

- Engineered a healthcare-focused conversational system with Azure Bot Service, Azure Functions, and Cognitive Services
- Integrated encrypted data flows and layered dialogue logic, reducing patient wait times by 35% and increasing self-service resolution by 25%.
- Produced Power BI dashboards by consolidating multi-source data, crafting custom DAX measures, and optimizing refresh cycles
- Accelerated reporting workflows by 50% and improved leadership decision-making speed by 30%.

### AI/ML Intern - Central Tool Room & Training Centre

Jun 2019

- Constructed a behavioral-cloning framework with TensorFlow/Keras and OpenCV, refining 20k+ samples with augmentation methods and achieving 90–95% imitation accuracy in simulation.
- Implemented lane-tracking and steering-prediction models using feature extraction and CNN inference, delivering real-time 30+ FPS output and enhancing steering stability by 20–25% across varied simulated environments.

## **Education**

- MBA in Business Intelligence and Artificial Intelligence - Jain University - GPA: 8.68 2021 – 2023
  - BTech. Honors in Computer Science and Engineering - Trident Academy of Technology - GPA: 8.7 2016 – 2020

## Certifications & Achievements

- Google Cloud Certified: Professional Machine Learning Engineer
  - Japanese Language Proficiency Test (JLPT) N3
  - Winner – Cisco Interstate Hackathon (Smart Washroom Project)

## Projects

Recipe Generator | Java, Spring AI, React | [Link](#)

- Built an AI-powered recipe generation platform using Java and Spring AI, integrating the Ollama Gemma model.
  - Integrated REST APIs for prompt handling, inference orchestration, and data flow between backend services and frontend UI.
  - Designed a responsive React interface supporting ingredient-based, dietary, and cuisine-specific recipe generation.