

# VAMSI PACHIPALA

Bengaluru, Karnataka - 560029

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## TECHNICAL SKILLS

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**Programming Languages:** Java, Kotlin, Python, Scala, SQL

**Frameworks & Libraries:** Spring, Spring Boot, Microservices, JPA, Hibernate

**Tools & Platforms:** Docker, Kubernetes, MySQL, Git, CI/CD Pipelines

**System Design:** High-Level Design (HLD), Low-Level Design (LLD), Design Patterns, Distributed Systems

**Core Concepts:** Data Structures and Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Networks, Multithreading, Distributed Systems

## EXPERIENCE

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### Senior Software Engineer – Black Duck (Synopsys)

May 2025 – Present

*Software Risk Manager (SRM) Team*

*Bengaluru, India*

- Extended SRM's Trivy integration by adding Kubernetes manifest scanning, enabling end-to-end vulnerability parsing and expanding scan coverage by **30%**.
- Designed and developed the complete **AssetType Filter API**, allowing dynamic asset-type selection and improving VMDR result accuracy by **40%**.
- Built the **Qualys scanVersion selector API** with timestamp mapping, enabling precise historical scan retrieval and reducing mis-scans by **25%**.
- Upgraded security and code-quality tools (**PMD, Checkstyle, ZPA, SpotBugs, FindSecBugs, Pylint**), reducing false positives by **20%**.
- Engineered the enhanced **GitHub Advanced Connector** with GitHub App authentication, including PEM private key handling, automatic token refresh, and repository selection APIs—significantly improving enterprise onboarding.
- Refactored the entire SonarQube connector using modern design patterns, reducing code duplication by **40%** and improving maintainability.
- Added **Legacy** and **Clean Code** scanning modes; optimized issue categorization logic using impact arrays, boosting processing efficiency by **30%**.
- Delivered the SRM **Dashboard PDF Export** feature using Playwright; resolved Docker/K8s deployment failures by fixing binary dependencies and optimizing Docker images.
- **Tech Stack:** Java, Spring Boot, Microservices, Docker, Kubernetes, MySQL, Playwright

### Software Engineer – IRA & IRA 2.0 (Tata Consultancy Services)

June 2023 – May 2025

*Connected Car Platform*

*Hyderabad, India*

- Built backend features for IRA & IRA 2.0, Tata Motors' connected car application, enabling trip tracking, vehicle insights, driving scores, charging data, and health monitoring at **10M+ daily requests**.
- Reduced backend latency by **70%** using **Redis caching** for frequently accessed trip and health report data.
- Collaborated with frontend/mobile teams to design optimized API contracts, reducing integration issues and development time by **30%**.
- Integrated services across **Telematics (TD)**, **Connected Vehicle Platform (CVP)**, and **CRM**, ensuring seamless data flow between vehicle, trip, and service modules.
- **Tech Stack:** Java, Spring Boot, Spring Security, Microservices, Redis, MySQL

## ACHIEVEMENTS & CERTIFICATIONS

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- Solved **1000+** DSA problems on **LeetCode** and **GeeksforGeeks**.
- Ranked **700 (Round 1)** and **1347 (Round 2)** globally in **TCS CodeVita**.
- **Microservices with Spring Boot, Docker, and Kubernetes** – Udemy Certification

## EDUCATION

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Gayatri Vidya Parishad College of Engineering

June 2019 – April 2023

*B.Tech - CGPA - 8.61*

*Visakhapatnam, india*