

MAHAK GAUTAM

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Full Stack Java Developer | Spring Boot | Angular | DevOps & CI/CD

PROFESSIONAL SUMMARY

Full Stack Java Developer with 1+ year of professional experience designing and delivering enterprise-grade applications using Java, Spring Boot, Angular, and REST APIs. Skilled in end-to-end CI/CD pipeline configuration (SIT, UAT, Production), automated vulnerability management, and secure SDLC practices as a certified Security Ninja and Deep Engineer. Proven track record leading a 4-engineer team, building modules from scratch, and integrating GenAI capabilities into production systems. Recognized as AI Friday Winner (2026) at TCS for AI-driven workflow innovation.

TECHNICAL SKILLS

Programming Languages: Java (Expert), Python, C++, TypeScript, JavaScript, SQL, HTML5, CSS3

Frameworks & Libraries: Spring Boot, Spring MVC, Angular, Django, REST APIs, Microservices, Pandas, NumPy

DevOps & CI/CD: CI/CD Pipeline Configuration (SIT/UAT/Prod), Jenkins, GitHub Actions, Git, Jile, Agile/Scrum

Security & AI: SAST, SonarQube, Manual Penetration Testing (MPT), SSL/TLS Certificate Management, GenAI Security, Machine Learning, Deep Learning

Tools & Platforms: JIRA, Figma, VS Code, Raspberry Pi, Jetson Nano

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS) — System Engineer (Prime)

Feb 2025 – Present

Nagpur, India

- Lead a team of 4 engineers on Java full-stack architecture, managing the complete deployment lifecycle across SIT, UAT, and Production environments.
- Implement SAST and SonarQube static analysis as a certified TCS Security Ninja, maintaining a zero-vulnerability standard for production Java codebases.
- Mastered Spring Boot and Angular within 30 days to accelerate delivery of core product features.
- Built three production modules from scratch, ensuring seamless integration between Java Spring Boot backends and Angular front-end interfaces.
- Architected an end-to-end SSL/TLS module with REST API integration to strengthen enterprise data encryption.
- Own the full lifecycle of SSL certificate management for enterprise URLs, coordinating automated renewal and security compliance with stakeholders.

KPIT Technologies — Embedded Systems Intern

Apr 2024 – Feb 2025

Pune, India

- Developed inter-ECU communication solutions using CAN, UART, SPI, and I2C protocols for automotive applications.
- Streamlined data transmission efficiency between microcontrollers, improving overall system responsiveness.

KEY PROJECTS

NATASHA — New Age Threat Analyzer and Secure Home Assistance | IoT, Python, Machine Learning, Deep Learning, Django

- Built an IoT security solution using MDAM (Monitor, Detect, Alert, Mitigate) architecture to protect home networks from cyber threats.
- Implemented real-time threat analysis and automated mitigation (IP blocking) for bi-directional network data protection.
- Integrated parental controls and a unified Django dashboard for real-time monitoring and security alerts.

VUMAS — Vulnerability Management System | Django, Python, Security

- Built a centralized platform for real-time vulnerability search and MPT-aligned risk mitigation.

Frag-UI | Figma, UI/UX Design

- Designed a modular UI component framework adopted to standardize design across multiple internal applications.

EDUCATION

PVG's College of Engineering and Technology — B.E., Computer Engineering *Graduated 2024*
Pune, India | Savitribai Phule Pune University (SPPU)

- University Rank: 8th Rank in SPPU Computer Engineering department.
- Cumulative SGPA: 9.56/10.0
- HSC: 94.70% | SSC: 92.00%

CERTIFICATIONS, HONORS & AWARDS

- TCS Certified Security Ninja & Deep Engineer
- AI Friday Winner (2026) — TCS Nagpur, for pioneering AI-driven workflow innovation
- Best Outgoing Student (2024) — Computer Department, PVG's COET
- Lila Poonawalla Scholar (2020–2024) — Merit-based scholarship recipient