Harshal Vilas Tarmale
IT Engineer / Software Developer

Motivated software developer with strong backend development experience in Java, Python, and cloud technologies. Proven track record in building scalable applications, automating processes, and working in Agile, international teams. Skilled in microservice architecture, database management, and DevOps practices. Eager to contribute to SaaS innovation and collaborative product development.

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EDUCATION

Masters in Computer Science (2.5/4)
University of Paderborn
04/2020 - 03/2024   *Paderborn, Germany*

Bachelor in Information Technology (7.27/10)
R.A.I.T. , Mumbai University
08/2015 - 05/2019   *Navi Mumbai, India*

WORK EXPERIENCE

Data Center Operations Technician
Amazon Web Services
03/2025 - 05/2025   *Frankfurt, Germany*
Achievements/Tasks
- Installed, configured, and troubleshot **servers, networking hardware, and storage systems** to ensure high availability.
- Managed **Linux-based systems**, automated tasks with **Bash scripting**, and performed **ISO testing** for compliance.
- Conducted **network diagnostics, resolved connectivity issues**, and enforced **IT security protocols**.
- Executed **hardware replacements, preventive maintenance, and inventory management** to minimize downtime.

FC Associate
Amazon DSP
07/2024 - 02/2025   *Paderborn, Germany*
Achievements/Tasks
- Streamlined **inventory management processes** to improve warehouse operations.
- Collaborated with teams to **troubleshoot operational issues**, enhancing efficiency and accuracy.

Reasearch Student Assistant
NLP Department - University of Paderborn
01/2024 - 05/2024   *Paderborn, Germany*
Achievements/Tasks
- Developed **semantic annotation web applications** using **Java** and modern web technologies.
- Built **linguistic datasets and annotated corpora** for **Indian languages** .
- Conducted **usability testing** to improve **application performance and UX** .

Werk Student - Technical Assistant
dSPACE GmbH
12/2021 - 09/2023   *Paderborn, Germany*
Achievements/Tasks
- Automated **market competitor data collection** using Python, Selenium, and shell scripting.
- Developed new features for **product documentation software** in **Python & Java**.
- Provided **IT support for Windows/Linux VMs** , enabling **remote software/hardware access** .

SKILLS

Python • Java • JavaScript • HTML5 • SQL/ NoSQL • XML/ JSON • GIT • Docker • REST/ WebSocket API • CI/ CD • React • Django • SpringBoot • Angular • Hibernate • Power BI • Grafana • Flask • Jira • Linux/ Windows OS • MySQL/ PostgreSQL • NodeJS • Selenium • Azure Cloud • Tomcat/ Nginx • ElasticSearch

PROJECTS

Master Thesis: Development and Prototypical Implementation of a Framework for Realtime Connected Web Applications
- Engineered a prototype real-time web application framework using WebSocket, JSON, Express.js, and Node.js for immersive Metaverse environments.
- Conducted comparative research on real-time communication protocols (WebSocket, WebRTC, SSE), optimizing the framework's performance and scalability.

Masters Project: Semantic Knowledge Graph Summarization
- Developed a web application using Python, Django, and React for summarizing semantic knowledge graphs.
- Optimized algorithms to reduce graph size by 67% while maintaining high accuracy, improving query response times.

Real-Time Market Intelligence Dashboard
- Developed a data pipeline using Python and Selenium to gather market insights from diverse sources.
- Created a Power BI dashboard to visualize KPIs, including market share and customer sentiment, enabling strategic decision-making.

DocuGen: Automated Documentation Tool
- Developed a Flask-based backend to automate document generation for products and services.
- Implemented reusable Python logic templates to generate XML, JSON, Markdown, and CSV documents, reducing creation time by up to 80%.

CERTIFICATES

Azure Databricks Platform Architect (2025 - 2027)

Microsoft Azure AI Essentials Professional Certificate (2025)

ServiceNow IT Leadership Professional Certificate (2025)

Databricks Fundamentals (2025)

Postman API Fundamentals Student Expert (2024)

Microsoft Technology Associate - Security Fundamentals (2017)

LANGUAGES

English
Full Professional Proficiency

German
Elementary Proficiency

Hindi
Native or Bilingual Proficiency

Marathi
Native or Bilingual Proficiency