# Ayush Gupta

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## EDUCATION

#### Rheinland-Pfälzische Technische Universität

Kaiserslautern, Germany

M.Sc. Computer Science

October 2023 - present

#### Manav Rachna University

Faridabad, India

Bachelor of Technology in Computer Science Engineering

July 2017 - April 2021

#### EXPERIENCE

#### Associate Software Engineer

 ${\bf January~2021-September~2023}$ 

Unthinkable Solutions

 $Gurgaon,\ India$ 

- Designed and launched a high-performance **Know Your Customer (KYC)** system using **Apache Kafka**, enabling a smooth **Merchant Onboarding**.
- Developed and deployed REST APIs with Java microservices, achieving response times under 150ms.
- $\bullet$  Reduced false positives in KYC checks by 15% through optimized data validation rules.
- Executed unit and integration testing with 95% code coverage, reducing production bugs by 50%.
- Partnered with cross-functional teams to develop, test, and deploy robust, scalable software solutions for clients.

### Java Intern

November 2020 – January 2021

TechChefz

 $Noida,\ India$ 

- Resolved critical APIs and backend issues, improving overall system stability by 30%.
- Wrote 50 test cases, maintaining 99% accuracy in code updates and reduced post-release issues by 35%.

#### PROJECTS

Merchant Onboarding Platform | Spring Boot, GraphQL, REST, Kafka, OCR, MongoDB, Docker

- Developed APIs using Spring Boot, GraphQL, and REST for SaaS integration, supporting 5,000+ users with 99.99% uptime.
- Reduced onboarding time from 2–3 days to 30–40 minutes via asynchronous processing of verification steps.
- Integrated third-party OCR for document verification, improving data extraction efficiency by 40%.
- Implemented Kafka messaging queues for asynchronous task handling, increasing user engagement by 25%.

## eVyapaar | Spring Boot, PostgreSQL, Agile

- Engineered a service in an **agile environment** for **1,000+ merchants**, boosting financial tracking accuracy by **30%**.
- Implemented **real-time payment tracking** with **Spring Boot** and **PostgreSQL**, reducing discrepancies by **20%**.
- Introduced an automated invoicing feature, reducing manual workload by 50% for merchants.

#### WebApp Farmbot | Node.js, ReactJS, MongoDB

- Designed an intuitive field map UI to visualize the real-time position of autonomous bots, enhancing operational visibility for farmers.
- Developed the dashboard interface for monitoring bot activities, job status, and field metrics.
- Engineered backend services to automate seeding tasks, reducing manual intervention and increasing efficiency.
- Implemented notification services to alert farmers about job completions and field updates, improving user engagement.

#### Fine-tuned LLM for German-French Translation | LoRA, GenAI, PEFT, Groq API

- Achieved a BLEU score from 0.25 to 2.40 using LoRA fine-tuning and GenAI-based data augmentation.
- Scaled training data by 200%, generating 1,400+ synthetic translation pairs with a 32B LLM via the Groq API.

## TECHNICAL SKILLS

Languages: Java, JavaScript, Python

Database: SQL, NoSQL, PostgreSQL, MongoDB

Cloud: Docker, Kubernetes, AWS

Frameworks: Spring Boot, Spring Data JPA, Hibernate, ReactJS, JUnit, Node.js

Developer Tools: GitHub, BitBucket, IntelliJ-IDEA, Maven, Gradle

Libraries / Testing Tools: Mockito, JUnit

Machine Learning: GenAI, Data Preprocessing, Parameter-Efficient Fine-Tuning(PEFT), Language Model

Fine-tuning (LoRA)

Other Technologies: OOP, Data Structures, REST APIs, GraphQL, Microservices, CI/CD, Apache Kafka, Agile,

Scrum, Jira, Confluence, Grafana

Non Technical: Troubleshooting Expertise, Code Review & Optimization, Analytical Reasoning, Rapid Learning &

Adaptation, Team Collaboration

# LANGUAGE SKILLS

English: Fluent (C1) German: Elementary (A2) Hindi: Native

## CERTIFICATES

Oracle Certified Associate Java Programmer