

# Hemant Kumar Singh

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## PROFILE

**DevOps** and **Python**-focused engineer with experience in automation, **CI/CD workflows**, and cloud application support. Skilled in Python scripting for automation and workflow optimization, with knowledge of **Java** for backend development and REST API integration. Experienced in leveraging **AI-assisted tools** to improve scripting efficiency, troubleshooting, and delivery speed. Known for problem-solving, clear communication, ownership, and effective collaboration in Agile, cross-functional teams.

## EDUCATION

Chandigarh Engineering College

Punjab, India

**Bachelor of Engineering** in Computer Science and Engineering

2020 – 2024

**CGPA: 8.1**

**Relevant coursework** in Computer Network, OOPS, DBMS, Data Structures & Algorithms, Agile Methodologies

## SKILLS

**Technical:** Java, Python, C++, JavaScript, Groovy, MongoDB, MySQL, Shell Scripting, Spring Boot, AI Tools

**Tools:** AWS, Docker, Kubernetes (K8s), Terraform, Ansible, Jenkins, GitLab, Jira, Selenium, JUnit/TestNG, SonarQube, Grafana

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified DevOps Professional– Sept'25 ([link](#))
- Oracle Cloud Infrastructure 2025 Certified Developer Professional– Nov'24 ([link](#))
- AWS Academy Graduate - AWS Academy Cloud Architecting – Nov'24 ([link](#))
- Completed course on Java from Infosys Springboard– Sept'25 ([link](#))

## EXPERIENCE

KPIT Technology, Pune

Maharashtra, India

**Associate Engineer**

Jan 2024 – Present

- Collaborated with cross-functional teams to troubleshoot pipeline failures, application issues, and deployment errors
- Developed RESTful backend services in **Java (Spring Boot)** for scalable distributed applications
- Built and supported **CI/CD workflows** to automate build, test, and validation processes
- Automated validation and data processing using **Python scripts**, reducing manual effort by ~50%
- Enabled **continuous integration** by integrating version control with automated pipelines
- Supported **cloud-based deployment and validation environments**
- Containerized applications to ensure **consistent and portable runtime environments**
- Enhanced **C++ engine-level modules** by integrating external APIs (Google Directions & Routes)
- Implemented **automated unit and API testing** to improve code quality
- Collaborated with cross-functional teams to resolve pipeline and deployment issues

## PROJECTS

**Apache Kafka**

- Built a **Kafka-like messaging system** with producers, consumers, message queues, and TCP communication
- Applied **distributed systems and asynchronous processing** concepts

**Power Shell**

- Built a **POSIX-compliant shell in Python** capable of executing external and built-in commands (cd, pwd, echo, etc.).
- Gained hands-on experience with **process management, command parsing, and REPL design**.

## ACHIEVEMENTS

- 1st Rank – Organization-wide **C++ coding contest** at KPIT
- **High Flyer Award** – Received twice at KPIT Technologies
- A Grade – **Genesis Training (Java, AWS, SQL)**