

# SIDDHARTH KALE

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## EXPERIENCE

Software Engineer  
SIEMENS

Jan 2025 – Present  
*Pune, India*

- **Boosted knowledge worker productivity by 30%**, measured via reduced time spent searching for information—by developing and deploying a Teamcenter AI Chat Interface using **Java, Python, JavaScript, React.js, Node.js, RESTful APIs, AWS Bedrock**.
- **Drove a 1.4× uplift in average user session depth** by elevating personalization and conversational continuity through a context-aware interaction tracking system built with **AWS DynamoDB, Redux**.

Software Engineer Associate  
SIEMENS

July 2022 – Dec 2024  
*Pune, India*

- **Reduced bug escape rate to 1 in 15** by adopting a TDD-based approach and implementing comprehensive unit and integration tests — leveraging mocking and stubbing techniques — **achieving over 90% code coverage** in critical modules using **Pytest, JUnit**.
- Developed a high-throughput document ingestion, parsing, and indexing system using message-queued asynchronous processing, **improving throughput by 43%** — **Python, Apache Tika, Elasticsearch, OpenSearch, RabbitMQs**.
- Reduced infrastructure provisioning time from **2 hours to 30 minutes** — while **improving resource utilization by 40%** — by implementing a containerized, automated deployment pipeline and microservices-based architecture for Teamcenter X — **AWS, GCP, Docker, Kubernetes, Terraform, Ansible, Gitlab CI/CD**
- Improved collaboration between technical teams and business stakeholders — **raising stakeholder satisfaction from 3.8 → 4.6 out of 5** — by translating complex technical concepts into accessible visuals and discussions — **PLantUML, Myrmaid**.

## EDUCATION

BTech in Computer Engineering , Vishwakarma Institute of Technology  
CGPA: 9.49/10

July 2022

Relevant Coursework: Data Structures, Algorithms, AI, System Software, OOP, Databases

## SKILLS

Problem Solving & Debugging Skills

462+ Problems Solved on LeetCode in C++

Programming

C++, Python, Javascript, Java

Frameworks & Libraries

Spring, Node.js, React.js, Redux

Cloud & DevOps

AWS, Docker, AWS EKS, Terraform, Ansible, GitLab CI/CD

Database Systems

Aurora MySQL, Dynamodb (NoSQL), Opensearch, Elasticsearch

Certifications

AWS Certified Cloud Practitioner, Scaled Agile Framework (SAFe)

## PROJECTS

**UptimeBoard.** A third-party Uptime Kuma monitoring dashboard — using **Next.js 15, TypeScript, React.js, HTML5, and CSS3**. Implemented intuitive UI patterns, real-time auto-refresh, multi-theme support, and latency visualizations via **Recharts**, delivering a clean and scalable dashboard experience.

**Chain4India.** Supply Chain Management using **Hyperledger Sawtooth, Javascript, Google Maps API** for PPE kits and Masks. It led to increased student participation and raised **2187\$** from IEEE Humanitarian Technologies Board.