

# SIDDHARTH MAHAJAN

## CLOUD ENGINEER | FULL-STACK DEVELOPER | SOFTWARE ARCHITECT

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### WORK EXPERIENCE

#### Astreya, Remote, India – Software Engineer I

(June 2025 – Present)

- Designed and developed an enterprise-grade reactive API Gateway using Spring Boot, Spring Cloud Gateway, and WebFlux, enabling scalable request routing across 50+ microservices, database-managed route configuration, and runtime updates without service redeployment.
- Implemented multi-tenant authentication and security architecture with Keycloak, OAuth2, host-based tenant resolution supporting 10+ tenants, back-channel logout with replay protection (300+ token tracking), and secure session management with 30-minute idle timeout across distributed Kubernetes environments.
- Established centralized observability and developer experience through OpenSearch-based logging with async batch processing (10K queue, 100 batch size), unified API documentation with Swagger/OpenAPI, and correlation-based request tracing with <5s latency flagging.
- Led 10+ R&D and architecture initiatives, evaluating authentication strategies (Okta, Basic Auth, multi-tenant patterns), contributing to component design decisions, and supporting IP development planning and cost estimation.

#### NEC Corporation India Pvt Ltd., Noida, Uttar Pradesh – Member Technical Staff

(April 2025 – June 2025)

- Designed and integrated 4+ end-to-end data pipelines for smart city initiatives, streamlining data unification and enabling real-time decision-making.
- Deployed and orchestrated an EFK logging stack with Istio service mesh across Kubernetes clusters, boosting system observability and accelerating root cause analysis by 50%, which contributed to a 30% drop in service interruptions.
- Drove architecture enhancements that facilitated the seamless onboarding of 5+ vendors, expanding platform scalability and improving ecosystem interoperability.

#### LTIMindtree, Noida, Uttar Pradesh - Software Engineer

(July 2022 – March 2025)

- Managed and optimized 5+ enterprise Kubernetes clusters supporting an AIOps platform, integrating Istio service mesh to enhance traffic control, observability, and system stability while achieving up to 80% traceability.
- Architected and delivered a production-grade custom API Gateway and operated a high-scale telemetry search platform processing terabytes of data, significantly improving monitoring depth and request observability.
- Evaluated and recommended 5+ cloud-native technologies across service mesh, orchestration, and API management, influencing scalable architecture decisions and strengthening platform resilience.
- Automated infrastructure workflows with 10+ Bash/Python scripts, improved provisioning efficiency by 20%, and contributed to team growth through technical mentorship, training feedback, and streamlined task delegation.

### SKILLS

- Cloud, Infrastructure & DevOps** | Docker, Podman, Kubernetes, Rancher, Istio, Azure, AKS, AWS(basic), VMware, Service Mesh, Nginx, Git, GitHub, CI/CD, Linux, Windows
- Programming & Scripting** | Java, C, C++, Python, Shell, PowerShell, Shell Scripting, Python Scripting
- Frameworks & Web Development** | Spring Boot, Spring Cloud, Spring Security, Vue.js, Quasar, HTML, CSS, Wireframing
- Data Management & Monitoring** | MySQL, PostgreSQL, OpenSearch, Prometheus, Grafana, Kafka, Apache Nifi
- API & Security** | APISIX, WSO2 Gateway, Keycloak
- AI-Driven Development & Automation** | Claude AI, Cursor IDE, LLM-Assisted Coding, Prompt Engineering, AI-Based Debugging & Optimization, Intelligent Code Refactoring, Development Workflow Automation

### EDUCATION

- Masters of Computers Application**, JAIN University, Bengaluru: June 2022 – August 2024
- Bachelor of Computer Application**, Guru Gobind Singh Indraprastha University, Delhi: June 2019 - June 2022

### PROJECTS

#### Protolio – Portfolio Template Platform

- Built a portfolio template platform featuring 6 fully responsive templates with a retro terminal-style landing page and live iframe previews for interactive template selection.
- Developed a JSON-driven content system allowing users to update site content without coding, reducing customization effort and improving accessibility for non-technical users.
- Leveraged HTML, Tailwind CSS, and JavaScript to create SEO-optimized templates using semantic HTML and meta tags, deployable on static hosting platforms such as GitHub Pages, Netlify, and Vercel.
- Integrated Google Apps Script-based contact forms and created custom 404/405 error pages to improve reliability and overall user experience.

### ADDITIONAL INFORMATION

#### Certifications:

- INTERNSHALA Web Development Certification - End-to-end website development including responsive design & database integration;
- LTI Certified Cloud & Infrastructure Service Professional - Windows Server 2016 Administration, Cisco Switching & Routing, Virtualization, PowerShell Scripting, Azure & DevOps Basics;
- LTIMindtree Certified ITOPS Automation (Foundation) Engineer - ITOPS Automation, Git, Java Utilities, Docker, Kubernetes

#### Awards - LTIMindtree:

- Spotlight Award (March 2023) - Mastered Platform (JORITZ) Core & Istio; delivered Service Mesh demo influencing platform architecture and reducing decision time by 30%;
- Spotlight Award (June 2023) - Implemented Service Mesh architecture improving system scalability by 30%;
- Technical Subject Matter Expert Recognition (June 2024) - Contributions to Automation Academy training (Apr 2023 – Mar 2024)