

# Nachiketh Joshi

[nachikethjoshi1@gmail.com](mailto:nachikethjoshi1@gmail.com) | (813) 897-1511 | Tampa, FL | [nachikethjoshi28.github.io](https://nachikethjoshi28.github.io)

## PROFESSIONAL SUMMARY

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**Results-driven Software Engineer** with strong Computer Science fundamentals and hands-on experience in **object-oriented design, algorithms, data structures, distributed systems, and machine learning**. Skilled in designing and developing **high-performance, microservice-based and AI-driven applications** using **Java, C++, C#, and Python**. Proficient in **RESTful and OData service design, SQL/KQL data querying, and cloud security practices** across **Azure, AWS, and GCP** environments. Experienced in **building scalable microservices, implementing predictive and deep learning models, and ensuring secure, efficient, and compliant enterprise-grade solutions** through **Agile development, rapid prototyping, and advanced debugging**.

## EDUCATION:

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- Masters in Computer Science from The University of South Florida - Tampa, FL.
- Bachelors in Computer Science from Dr. B V Raju Institute of technology - JNTUH - India.

## EMPLOYMENT HISTORY

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Sans America

Feb 2024 – Present

Role: Full Stack Java Developer

### Responsibilities:

- Migrated monolithic applications to **microservices-based architectures** using **Spring Boot**, enhancing scalability, maintainability, and performance.
- Designed and implemented **secure REST and OData APIs** with **Spring Security** and **OAuth2**, enabling robust **service-to-service communication** and compliance with cloud security standards.
- Developed **Angular and TypeScript SPAs**, applying modular design patterns to improve scalability and UX performance by 30%.
- Implemented **SQL and KQL-based data querying** in PostgreSQL and Redis, improving query performance and latency.
- Integrated **Apache Kafka** for asynchronous, event-driven communication to support **highly scalable distributed services**.
- Deployed containerized applications using **Docker and Kubernetes (EKS)**; automated infrastructure provisioning with **Terraform**.
- Established **CI/CD pipelines** through Jenkins and GitLab to reduce deployment errors and accelerate release cycles.
- Implemented **monitoring, logging, and alerting** systems using **Prometheus, Grafana, and ELK Stack** to ensure operational reliability.
- Implemented **inter-service communication protocols (REST, OData)** and **secure authentication frameworks** using **Spring Security** and **OAuth2**, ensuring robust and secure API interactions.
- Built optimized **data access layers** using **Spring JDBC, Hibernate ORM, and JPA**, enhancing database persistence and query performance.
- Developed and tuned **SQL procedures, indexing, and query optimizations** for **MySQL and PostgreSQL**, achieving up to **30% faster query execution** in production workloads.
- Applied **cloud security fundamentals** for IAM, encryption-at-rest, and network isolation, aligning with compliance standards.

## Tata Consultancy Services

Jun 2021 – Jan 2023

Role: Systems Engineer (Projects: Verizon, Ericsson)

### Responsibilities:

- Designed, developed, and deployed enterprise-grade applications using **Java, J2EE, Spring Boot**, and **RESTful microservices**, improving scalability, reusability, and maintainability across large-scale telecom systems.
- Played a key role in the **MCPTT (Mission Critical Push-To-Talk)** project, developing **real-time communication modules, RESTful APIs**, and **backend orchestration services** to support **low-latency, high-reliability voice transmission** for mission-critical use cases.
- **Developed a custom Log Analyzer tool** to automate log parsing, error detection, and service-level event tracking, significantly reducing debugging time and improving operational visibility.
- **Led remediation efforts during the Log4j vulnerability incident**, identifying impacted microservices, implementing secure library upgrades, and validating system integrity across distributed environments.
- Collaborated with **cross-functional teams** across clients to translate complex business requirements into scalable, modular, and fault-tolerant software systems.
- Deployed **containerized microservices** using **Docker**, integrated **Jenkins** and **Maven** for **CI/CD automation**, reducing deployment time by **25%** and improving release reliability.
- Completed **corporate Kubernetes training** at **TCS**, gaining hands-on experience in **container orchestration, scaling strategies, and cluster management** for cloud-native deployments.
- Applied **Agile/Scrum methodologies** using **JIRA** and **Confluence** for sprint planning, backlog management, and daily stand-ups, ensuring high delivery velocity and transparency.
- Authored detailed **technical documentation**, including **architecture diagrams, API contracts, and deployment workflows**, supporting scalability and future maintenance.
- Conducted **unit and integration testing** with **JUnit** and **Mockito**, achieving **95% code coverage** and improving system reliability.
- **Recognized for Outstanding Delivery** by **TCS** leadership for consistently meeting deadlines, delivering high-quality software, and demonstrating exceptional problem-solving and ownership.
- **Mentored junior developers and new hires** on Java best practices, SQL tuning, and CI/CD workflows, contributing to a culture of technical growth and collaboration.

## Cybermotion Technologies

Feb 2019 – Dec 2020

Role: AI/ML Research Intern

- Designed and developed a **machine learning-driven Learning Management System (LMS)** integrating **Python, TensorFlow, NLP**, and distributed cloud architecture for large-scale deployments.
- Developed **AI models for student performance prediction, sentiment analysis**, and personalized learning recommendations, achieving over 80% prediction accuracy.
- Implemented **data preprocessing pipelines** for structured and unstructured data using **Pandas, NumPy, and Scikit-learn**, enhancing data quality and processing efficiency.
- Deployed RESTful backend APIs using **Flask** to serve ML inference results to the front end, supporting scalable data exchange and low-latency response.
- Collaborated with data engineers to **optimize database queries and API performance**, reducing latency by **25%**, and enhanced UI engagement through behavior-driven algorithmic improvements.
- Documented ML workflows and system architecture while contributing to performance tuning, real-time analytics integration, and overall system reliability.

## SKILLS:

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**Programming Languages:** Java, C++, C#, Python, SQL, KQL, JavaScript, Go

**Core Competencies:** Data Structures, Algorithms, Operating Systems, Networking, Object-Oriented Design, Machine Learning, Deep Learning, Artificial Intelligence, REST/OData APIs, Microservices Architecture, Distributed Systems

**Cloud Platforms:** Microsoft Azure, AWS (EC2, Lambda, IAM, SageMaker), Google Cloud (Vertex AI, BigQuery)

**Security & Compliance:** Cloud Security Fundamentals, Encryption-at-Rest, IAM Policies, Zero Trust Principles

**Frameworks & Tools:** Spring Boot, Flask, React, Node.js, Docker, Kubernetes, GitLab CI/CD, TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, Numpy, Jenkins, GitLab CI/CD

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Performance & Reliability:** High-Scalability Service Design, Caching, Indexing, ETL Pipelines, Fault Tolerance, Monitoring (Prometheus, Grafana, ELK)

**Testing & Debugging:** JUnit, Mockito, TestNG, Postman, Swagger, CI/CD Automation

**Methodologies:** Agile/Scrum, TDD, Continuous Integration & Delivery

## PROJECTS:

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**Smart Attendance Management System** | *Python, Flask, React, TensorFlow, SQL, Neural Networks, OpenCV, Git*

- Developed an intelligent **attendance tracking system** using **Python, Flask**, and **TensorFlow-based facial recognition models**, achieving **95% identification accuracy** and reducing manual attendance workload by **over 90%**.
- Implemented **real-time image processing and database synchronization** with **MySQL**, optimizing the system's response time by **20%** and enhancing efficiency and scalability.
- Designed a **React-based dashboard** for real-time monitoring, analytics, and report generation, improving usability for administrators and instructors.

**Smart Text Summarizer Application** | *Python, React.js, Flask, NLTK, Machine Learning, Natural Language Processing, LLMs*

- Built an **AI-powered text summarization platform** leveraging **NLP and fine-tuned large language models (LLMs)** to generate concise, context-aware summaries from lengthy documents or articles.
- Integrated **React.js frontend** with a **Flask-based backend API**, enabling seamless text processing and real-time summary generation through **RESTful microservices**.
- Enhanced user experience by reducing reading time by **up to 80%**, improving information accessibility and boosting user satisfaction by **50%** through adaptive summarization models.

## CERTIFICATIONS:

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**Tensorflow developer professional certification, Deeplearning.AI**

**Data Privacy Certification, Tata Consultancy Services (TCS)**

**AWS Fundamentals, AWS**

**Python for Data Science and AI, IBM**