

# N AKSHAY

Thalassery, Kerala

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## Summary

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Software Developer with 3+ years of experience in Java, Spring Boot, Microservices, SQL, and CI/CD. Strong in Core Java, REST APIs, database design, and Agile delivery. Skilled in building scalable backend services and optimizing system performance.

## Technical Skills

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<b>Languages:</b>	Java (8+), Python, SQL, HTML/CSS
<b>Backend:</b>	Core Java (OOP, Collections, Streams, Lambdas), Multithreading (Basics)
<b>Frameworks:</b>	Spring Boot, Spring MVC, Spring Security, Spring Cloud (Basic), Hibernate/JPA, Drools
<b>Architecture:</b>	Microservices, REST APIs, MVC, Design Patterns, Asynchronous Communication
<b>Databases:</b>	MySQL, Redis
<b>Messaging/Caching:</b>	Kafka, RabbitMQ, Redis
<b>Tools:</b>	IntelliJ, VS Code, Postman, Jenkins, Git, Data Beaver, Maven/Gradle
<b>Quality /Security:</b>	SonarQube, Veracode, JUnit
<b>DevOps/Cloud:</b>	CI/CD Pipelines, Jenkins, Cloud Fundamentals (AWS/GCP)
<b>Practices:</b>	Agile/Scrum, Sprint Planning, Code Reviews, Client Communication

## Experience

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### UST HEALTHPROOF|SOFTWARE DEVELOPER 2

Aug 2025 – Present

Thiruvananthapuram, Kerala

- Continued development of the same core **Java/Spring Boot**-based enrollment platform after transition to UST HealthProof.
- Implemented **multithreaded job execution** for parallel data processing, reducing total processing time by **40%**.
- Worked with **Spring Security**, **OAuth2**, and **JWT** to strengthen API-level authentication and authorization.
- Migrated backend services and microservices to **Java 21**, improving performance, maintainability, and long-term platform support.
- Leveraged **GitHub Copilot** to accelerate development and improve coding efficiency, enabling faster delivery of complex features.

### UST GLOBAL|SOFTWARE DEVELOPER 2

Aug 2022 – Aug 2025

Thiruvananthapuram, Kerala

- Designed and deployed **Spring Boot RESTful services** and **microservices** to process large-scale healthcare data across multiple U.S. states.
- Played a key role in scaling the application from **single-state** to **multi-state** support, enabling wider platform adoption.
- Improved backend performance using optimized **Java Collections**, **Streams**, and **SQL/Hibernate** tuning, achieving a **50%** faster file load time.
- Integrated backend services with **MySQL** using **JPA/Hibernate**, ensuring reliable and consistent data persistence.
- Configured **CI/CD pipelines** using **Jenkins**, enabling faster and stable production deployments.
- Built an **Aspose**-based letter generation engine for dynamic, personalized member document creation.
- Ensured code quality and security using **SonarQube** and **Veracode**, reducing vulnerabilities and improving compliance.
- Participated in **Agile/Scrum** ceremonies and collaborated with cross-functional teams to deliver high-quality features on schedule.

## Projects

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**COVID-19 DETECTION THROUGH SPEECH AND VOICE ANALYSIS** | *Python, ML* **July 2022**

- Created a pre-screening tool for COVID-19 using voice/audio signals.
- Preprocessed audio data using Mel Frequency Cepstral Coefficients (MFCCs).
- Trained a Random Forest classifier to detect COVID-like patterns in voice samples.

**DRIVER DROWSINESS DETECTION SYSTEM** | *OpenCV, Python* **November 2021**

- Used OpenCV to track eye closure rate in real-time from a webcam feed.
- Integrated an alert system to warn drivers when drowsiness was detected.

## Education

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**Federal Institute of Science and Technology** **Aug. 2018 – June 2022**

*Bachelor of Technology - Computer Science and Engineering - GPA:9.1* *Kochi, Kerala*

## Certifications

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**Architecting with Google Compute Engine** **2021**

*Google Cloud Certification Program*