

# Yugal Kishore Nandakumar

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## Profile

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Software Engineer with 3+ years of professional experience designing, developing, and implementing scalable, secure, and high-performance applications in financial and enterprise environments. Strong expertise in Java, Spring Boot microservices, RESTful APIs, and Spring Security, with hands-on experience across the full Software Development Life Cycle (SDLC). Proven ability to collaborate with cross-functional teams, participate in design and code reviews, troubleshoot production issues, and deliver resilient solutions aligned with enterprise architectural standards. Currently pursuing a Master's in Computer Science at NJIT.

## Skills

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**Programming Languages:** Java (8+), Python, JavaScript, TypeScript, C++, SQL

**Backend Technologies:** Spring Boot, Spring MVC, REST APIs, Hibernate/JPA, Node.js, FastAPI

**Architecture:** Microservices architecture, service decomposition, API-first design, fault tolerance

**Security:** Spring Security, Authentication & Authorization, Role-Based Access Control, Encryption

**Frontend:** Angular, XSLT, Freemaker, React, TypeScript, HTML5, CSS3

**Databases:** PostgreSQL, Oracle SQL, MySQL, MongoDB

**Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda), Docker, CI/CD, GitHub Actions, TeamCity, UDeploy

**Monitoring & Debugging:** Log analysis, SQL performance tuning, production support

**Tools:** Git, Bitbucket, Jira, Postman, Eclipse, VS Code

## Experience

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**Software Engineer - Application Development (Intern)** · EvegTech Inc, California, US

Jan 2025 – Sept 2025

Architected and developed a full-stack, enterprise-grade logistics and inventory system, applying modern microservices architecture and real-time data processing to simulate a scalable business solution.

- Co-developed a **Spring Boot microservices** backend for Inventory Management and Order Fulfillment, leveraging **Java, REST services, JPA/Hibernate, and PostgreSQL** for data persistence.
- Designed and implemented a real-time tracking interface using **React**, showcasing shipment locations and inventory alerts via **WebSockets**, enhancing operational visibility.
- Orchestrated the application infrastructure by containerizing services with **Docker** and automating the build pipeline using **GitHub Actions**, preparing the application for deployment in a local server environment.
- Implemented robust **exception handling, logging, and validation layers** across microservices to ensure fault tolerance, traceability, and consistent API behavior under simulated high-load scenarios.
- Applied **Agile methodologies** for project management using **Jira** and participated in rigorous code reviews to maintain high code quality and adhere to industry best practices.

## Associate Engineer · Virtusa Pvt Ltd,Chennai,India

May 2022 – Aug 2024

Contributed as a key member of OneCMS, a project of Citibank, a high-performing team of 14, driving collaborative success and delivering innovative solutions on time and under budget.

- Designed, developed, and implemented **Java-based enterprise application solutions** for Citibank's OneCMS platform, supporting mission-critical **FX trading and confirmation workflows**.
- Contributed across the **entire SDLC**, including requirements analysis, application design, development, testing, UAT support, production deployment, and post-release maintenance.
- Developed and enhanced **RESTful APIs** using **Spring Boot, Spring MVC, and Hibernate/JPA**, enabling secure and scalable communication between distributed systems.
- Applied **microservices architecture principles**, decomposing large business workflows into independently deployable services to improve scalability, resilience, and release velocity.
- Implemented **authentication and authorization mechanisms** using **Spring Security**, enforcing secure access control and role-based permissions.
- Participated in **application design reviews and peer code reviews**, ensuring adherence to predefined architectural, security, and performance standards.
- Translated complex business, regulatory, and compliance requirements into **technical specifications and modular application components**.
- Identified, troubleshooted, and resolved **application and production issues** through root-cause analysis, log inspection, and optimized SQL queries under strict SLAs.
- Worked extensively with **Oracle and MySQL databases**, including schema updates, query optimization, and data consistency validation.
- Supported CI/CD pipelines using **TeamCity and UDeploy**, assisting with build automation, release packaging, and coordinated deployments.
- Collaborated closely with project managers, business analysts, QA, and DevOps teams in an **Agile/Scrum** environment to analyze requirements and outline proposed solutions.
- Mentored and guided **four junior engineers**, reviewing code, providing technical direction, and ensuring timely, high-quality delivery.

## Full Stack Developer Intern · Virtusa Pvt Ltd,Chennai,India

Dec 2021 – Mar 2022

Attended a three month paid internship as a **Full Stack Developer** and was introduced and trained in various technologies like **Angular, Node JS etc.**

- Played a crucial role in developing the user interface for the **Carpenter Hiring application**, ensuring a seamless and intuitive user experience.
- Collaborated closely with the **design team** to implement responsive and visually appealing layouts using **HTML, CSS, and JavaScript**.
- Applied **MVC (Model-View-Controller) frameworks** to structure the application, facilitate organized code management, and improve scalability.
- Designed and implemented **server-side logic and database interactions** using **Oracle SQL**, ensuring robust data management and efficient query performance.
- Contributed to **code reviews** and provided feedback to improve overall code quality and team efficiency.

## Education

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**New Jersey Institute Of Technology, MS in Computer Science**

Sept 2024 – Dec 2025

- **GPA:** 3.4/4.0
- **Coursework:** Data Structures and Algorithm, Data Management and System Designs, Data Analytics with R Programming, Machine Learning, Operating Systems, Web Systems, Cryptography and Security, Internet Higher Layer Protocols, Data Mining, Data Visualization.