

Shubham Kumar

Software Engineer at Optum Global Solutions (UHG)

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Professional Summary

Highly motivated Software Engineer at Optum Global Solutions (UHG), specializing in API optimization, security enhancements, and scalable backend development. Proficient in Java, Spring Boot, ReactJS, Kafka, and Kubernetes, with a strong foundation in information security backed by a Master of Technology in Information Security. Demonstrated expertise in resolving critical incidents, implementing test-driven development, and developing robust digital solutions. Adept at leveraging microservices architecture and modern tools to deliver efficient, secure, and high-quality software solutions and committed to continuous learning and excellence in software development.

Skills

Programming Languages	C++, Python, Java, JavaScript, SQL
Front End	HTML, CSS, ReactJS
Back End	Spring Boot, MySQL, MongoDB
Tools & Frameworks	JUnit, Mockito, REST API, Kubernetes, Kafka, Git, Jenkins, GitHub Actions, Rally, Postman, SonarQube, MS Office
IDEs	Visual Studio, IntelliJ IDEA, Eclipse, Atom
Monitoring & Logging	Splunk, Kibana, New Relic, Zenmap, Lens
Soft Skills	Problem Solving, Troubleshooting, Debugging, Data Structures & Algorithms, Test-Driven Development (TDD), Microservices Architecture, Object-Oriented Programming (OOP), Microservices, Software Development Lifecycle

Professional Experience

Software Engineer July 2022 – Present

Optum Global Solutions (UHG) Noida, Uttar Pradesh, India

- Enhanced API performance by 15% by optimizing Kafka streams and refining RESTful architecture, reducing latency and boosting user throughput.
- Resolved 200+ high-priority incidents via ServiceNow, ensuring 99.9% uptime and strengthening security protocols.
- Developed and integrated frontend and backend APIs for the Digital Security Helpdesk Portal, reducing ticket resolution time by 25% and enhancing user satisfaction.
- Designed a scalable user management interface with React.js and Abyss, achieving 98% test coverage using JUnit.
- Automated database maintenance with cron jobs, reducing downtime by 10% and improving system stability.
- Mentored new joiners on the Provider Portal platform, improving onboarding efficiency and fostering cross-team collaboration.

Tools & Technologies: Java, Spring Boot, ReactJS, Abyss, GraphQL, JUnit, CodeQL, Splunk, Kibana, ServiceNow, MongoDB, Git, Jenkins, Kubernetes, JMeter

Teaching Assistant Jan 2022 - May 2022

Indian Institute of Information Technology Gwalior, Madhya Pradesh, India

- Assisted in C Programming Lab for 1st-year B.Tech students and AI Lab for 2nd-year B.Tech students, helping with C programming and AI-related coding questions.
- Provided live coding classes and promptly answered students' queries.

Projects

Personal Finance Tracker

- Description:** Created a full-stack web application for managing income, expenses, and budgets using Java Spring Boot, React.js, and MongoDB. Features include secure authentication, dynamic data visualization, comprehensive budgeting tools, and a responsive UI for an enhanced user experience.
- Key Technologies:** Java Spring Boot, React.js, MongoDB, Spring Security, JWT, RESTful APIs

Tax Calculation Service System

- Description:** Developed a comprehensive application enabling users to register, log in, and calculate their tax liabilities for the financial year.
- Key Technologies:** Java Spring Boot, React.js, MongoDB, Spring Security, JWT, RESTful APIs

Education

Master of Technology (M.Tech) in Information Security July 2020 – June 2022

Indian Institute of Information Technology Gwalior, Madhya Pradesh, India

Bachelor of Technology (B.Tech) in Computer Science & Engineering June 2015 – July 2019

West Bengal University of Technology Kolkata, West Bengal, India

Publications

Securing IoT with Blockchain: Detecting Malicious Nodes with TLS Certificates

International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3), June 8, 2023

Certifications

- React - The Complete Guide 2024 (Incl. React Router & Redux), Udemy
- Core Java - Full Course, Udemy

Achievements

- ★ Qualified GATE-CS in 2020, and 2022.
- ★ Achieved Global Rank: 148 in September Challenge 2021 Division 3 on CodeChef.
- ★ Earned a 5-star rating in C++ Programming on HackerRank.