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 and developed scalable Kafka and REST APIs for the Provider Portal at UnitedHealth Group (UHG), optimizing access and user management processes.
- Resolved over 200 critical incidents using ServiceNow, ensuring seamless operations and strengthening the security posture for providers.
- Developed the Digital Security Helpdesk Portal, mitigating security vulnerabilities through the utilization of CodeQL and WhiteHat Sentinel tools.
- Designed and implemented a user control UI with React and Abyss components, ensuring application consistency and increasing code coverage to 98% through comprehensive unit and integration testing with JUnit.

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, Chart.js

📖 Book Review Platform

- **Description:** Built a full-stack web application that allows users to browse, review, and rate books using Java Spring Boot, React.js, and MongoDB. Implemented secure authentication, a robust review and rating system, personalized book recommendations, and a responsive, user-friendly interface to boost engagement.
- **Key Technologies:** Java Spring Boot, React.js, MongoDB, Spring Security, JWT, RESTful APIs, Axios, Swagger

🏛 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

🏅 Certifications

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

⚙ Publications

Securing IoT with Blockchain: Detecting Malicious Nodes with TLS Certificates

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

🏆 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.