

Shubham Kumar

Software Engineer at Optum Global Solutions (UHG)

+91-8002887706 | mshubham0309@gmail.com | linkedin.com/in/imshubhamkumar | github.com/ishubhamkr | Noida, Uttar Pradesh, India


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% through Kafka stream optimization and refinement of RESTful architecture, resulting in decreased latency and increased user throughput.
- Resolved over 200 high-priority ServiceNow incidents, maintaining 99.9% system uptime and strengthening security protocols within the Enhanced Provider Validation (EPV), Digital Security and Provider Helpdesk Portal.
- Engineered and integrated frontend and backend APIs for the Digital Security Helpdesk Portal using React.js, Abyss, and MongoDB, reducing ticket resolution time by 25% and achieving 98% test coverage with JUnit.
- Implemented comprehensive production monitoring solutions utilizing Splunk, Kibana, NewRelic, and OpenLens, alongside automating database maintenance with cron jobs, which reduced downtime by 10% and enhanced system stability.
- Mentored new graduates and onboarded team members, streamlining the onboarding process and fostering a collaborative, high-performing team environment.

Tools & Technologies: Java, Spring Boot, ReactJS, Abyss, GraphQL, JUnit, CodeQL, Splunk, Kibana, ServiceNow, MongoDB, Git, 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 and provided live coding classes and promptly answered students’ queries.

Projects

 Provider Digital Security

United HealthCare Services, Inc.


- Description:** Developed and implemented a robust digital security system for the UnitedHealthcare (UHC) Provider Portal, enabling authorization for over 1.4 million users and processing 1.2 billion+ transactions annually. The system protects sensitive data from unauthorized internal and external access while facilitating seamless user and provider interactions.
- Key Technologies:** Java Spring Boot, React.js, MongoDB, Spring Security, JWT, RESTful APIs, Apache Kafka, HashiVault


 Enhanced Provider Validation (EPV) Portal

United HealthCare Services, Inc.


- Description:** Developed the Enhanced Provider Validation (EPV) portal, a web application for Out Of Network (OON) providers to register their Taxpayer Identification Number (TIN) and manage their credentialing information. This portal streamlines the process of validating and maintaining provider data, ensuring compliance and ease of use for healthcare providers.
- Key Technologies:** Java Spring Boot, React.js, MongoDB, Spring Security, JWT, RESTful APIs, Apache Kafka, Pega,


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.