

Rahul Krishna Eragarla

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Professional Summary

Full Stack Developer with 3 years of experience delivering scalable enterprise applications using Java 8+, Spring Boot, React.js, Microservices, and Docker. Proven expertise in Agile delivery, CI/CD, REST/GraphQL APIs, UI/UX design, performance optimization, and secure coding. Maintained curiosity to learn new technologies. Adept at end-to-end software delivery and stakeholder collaboration.

Technical Skillset

- **Programming Languages:** Java 8+, Python, C, C++, SQL, JavaScript, TypeScript, jQuery, HTML, CSS.
- **Core Skills:** Spring Boot, J2EE, Hibernate, MVC Architecture, Apache, Maven, Javascript, jQuery, ReactJS, Bootstrap, OAuth 2.0, SQL, mysql, PostgreSQL, Oracle, JUnit, Mockito, Selenium, Git, Jenkins, Docker, Kubernetes.
- **More Tech Skills:** Object-Oriented Programming, Data Structures and Algorithms, Software Design, Web Technology, Web Services, RESTful API Design, System Design, UI Development, Software Testing, BDD Patterns, Agile Methodologies, Postman.

Experience

Intern – Fullstack, CyberCheck360 – Dublin, Ireland

Feb 2025 - Present

- Integrated Push API for real-time notifications, ensuring seamless and secure delivery across web. Optimized push notification services for enhanced user engagement and reduced latency, improving message reliability.
- Worked closely with frontend and backend teams to implement Web Push Notifications, ensuring cross-browser compatibility and secure push subscriptions. Result: Improved user retention rates by 30% through optimized notification delivery.
- Debugged and resolved push delivery issues, improving overall notification reliability across various devices and platforms. Collaborated with developers to refine the subscription handling process, minimizing failures in push notifications.
- Conducted code reviews to identify and mitigate security vulnerabilities within the notification system. Result: Strengthened application security by proactively addressing potential threats and ensuring compliance with security best practices.
- Leveraged Interpersonal Skills to resolve conflicts and ensure smooth communication within the technical team. With good verbal communication skills, excelled in relationship building with team

Program Analyst - Fullstack, Excelacom Technologies PVT LTD - Chennai, India

Jul 2021 - Aug 2023

- Enhanced the configuration tool with Business Process Model and Notation (BPMN), providing a graphical representation of business workflows to configure and optimize business models.
- Developed and maintained scalable microservices using Java 8+, Spring Boot, and Oracle, ensuring high availability and efficiency. Built and maintained RESTful APIs for secure communication between microservices in a distributed system.
- Worked closely with the UI team to develop new features, web pages, and customized existing platform components based on evolving business requirements, ensuring scalable and optimized development practices.
- Designed and implemented CI/CD pipelines using Azure DevOps, Jenkins, and Docker, streamlining code deployment and ensuring continuous delivery of software updates.
- Utilized Kubernetes for container orchestration, effectively managing deployments, services, and configurations in production environments.
- Implemented BDD testing patterns, developed unit tests using JUnit and Mockito, ensuring code robustness and maintainability.
- Developed a JSON Schema Validator and a Template Creation Tool to generate APIs for the BPMN 2.0 tool, streamlining integration into the working environment at Excelacom Technologies.

Education

Dublin City University, Master's in Computing (Secure Software Engineering) Sept 2023 – Aug 2024

- **Coursework/Skills:** Secure Software Programming, Concurrent Programming, Formal Programming, Network Security, Software Process Quality, Cryptography, Blockchain.

Anna University, Bachelor of Engineering (Computer Science) Sept 2018 – May 2022

- **Coursework/Skills:** Object Oriented Programming(C++), Data Structures and Algorithms, Java Programming, DBMS (Database Management System), Web Technology, Mobile App Development, Software Engineering, Software Quality Assurance, Network Programming, Machine Learning, Cloud Computing, Artificial Intelligence

Projects

API Notification Using Service Worker February 2025

- Designed and implemented a real-time push notification system using Service Workers and JavaScript, allowing web applications to receive background notifications even when inactive. Developed a secure Python-based backend to manage user subscriptions, push notification payloads, and authentication, ensuring encrypted communication channels. Optimized notification handling by reducing latency and implementing retry mechanisms to improve message reliability across different browsers. Ensured cross-platform compatibility, supporting notifications across Chrome, Firefox, and Edge while implementing event-driven triggers to enhance user engagement.

Excel to Browser Data Autofill System July 2024

- Developed an automated data migration tool that extracts structured information from Excel spreadsheets and seamlessly populates form fields on web applications running in a Chrome browser. Built a Java Spring Boot backend to process Excel data and securely transmit it to the Chrome extension via RESTful APIs, ensuring encrypted communication. Integrated role-based authentication to restrict access and prevent unauthorized modifications, ensuring data privacy. Implemented logging and monitoring mechanisms to track API usage, detect anomalies, and enhance system performance.

Blockchain Sentinel for Smart Contract Security June 2024

- This research addresses smart contract security challenges and by analyzing OWASP Top 10 vulnerabilities and Engineered a smart contract security analysis platform designed to detect vulnerabilities in Ethereum-based smart contracts using static and dynamic code analysis techniques. Developed a Spring Boot RESTful API that accepts smart contract source code, processes it through predefined security rules, and returns potential risks such as reentrancy attacks, integer overflows, access control misconfigurations, an unchecked return values. Integrated automated security validation tools to detect malicious contract behaviors and provide insights into contract safety before deployment.

User List Management System April 2023

- Developed a scalable user management system that facilitates CRUD (Create, Read, Update, Delete) operations with a Spring Boot-based RESTful API for seamless user data management. Integrated search and filter functionalities, enabling efficient user data retrieval based on specific criteria such as role, activity status, and registration date. Optimized API response times by implementing caching mechanisms and efficient database indexing strategies. Ensured high availability and reliability by deploying the system using a containerized microservices approach, making it adaptable for cloud environments.

Certifications

Vulnerability Management: Assessing the Risks with CVSS v3.1: LinkedIn March 2024

Spring MVC, Spring Boot and Rest Controllers : Coursera January 2024

Object Oriented Java Programming: Data Structures and Beyond: Guvi May 2022

Basics of JavaScript & JQuery: Coursera September 2021