

UMESHA SANDALU

Full Stack Software Engineer

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Professional Summary

Results-driven Full Stack Software Engineer with 3 years of experience in designing, developing, and deploying scalable web applications. Skilled in multiple programming languages, such as Python, Java, JavaScript, and TypeScript, with extensive experience in technologies like React, Next.js, Node.js, and Spring Boot. Strong background in cloud native applications, mobile development, UX/UI design, and software architecture. Passionate about problem solving, continuous learning, and building impactful solutions. Seeking opportunities to contribute expertise while expanding knowledge in cutting-edge technologies.

Experience

Software Engineer (Contract)

TradeNet Solutions

Aug 2024 - Dec 2024

Melbourne, Australia

- Designed and implemented the Documentation Module for the Spark Admin Portal using Spring Boot with JSP, centralising application-wide documentation into a structured repository, enabling seamless multi-user contributions and improving accessibility.
- Developed the Release Notes Module, streamlining the tracking of project releases across the company, enhancing visibility and accountability for stakeholders.
- Implemented an external API endpoint using Spring Boot and REST, enabling external users to securely access documentation stored within the module.

Software Engineer Intern

Inflamed

Jul 2024 - Nov 2024

Melbourne, Australia

- Developed the Inflamed Practitioner Web Portal Guidance Module using Next.js, reducing workflow efficiency by enabling practitioners to create, assign, and manage guidance programmes and resource packs directly within the existing patient management system.
- Integrated FHIR-based patient data storage, improving compliance and security, resulting in a 20% faster data retrieval time compared to the previous system.
- Implemented Firebase Cloud Firestore as a real-time NoSQL database, ensuring efficient data synchronisation between the front-end and back-end services.
- Leveraged Google Cloud Functions (Node.js) to build serverless APIs handling business logic, authentication, and data processing, reducing infrastructure overhead.
- Served as a Scrum Master while participating in Agile development workflows. Utilised GitHub for version control and contributed to 15+ code reviews, improving code quality and maintainability.

Software Engineer

WSO2

Mar 2021 - Jan 2023

Colombo, Sri Lanka

- Implemented Choreo's marketplace feature, introducing a novel concept where organisations can host their APIs, event streams, and data sources.
- Designed and integrated user interfaces for Choreo Console's Mediation Ballerina service, facilitating seamless mediation customisation for API proxies.
- Contributed to the development of the low-code editor in Choreo, refining the statement editor panel, and introducing components to enhance the overall user experience.
- Developed the APIM Analytics dashboard, delivering a comprehensive individual project that enhanced data visibility and analytics capabilities for API management.
- Modified the API Manager Analytics database using Siddhi-streaming SQL, resulting in improved data querying performance and accuracy.
- Enhanced the code quality of Choreo by authoring unit, integration, and end-to-end tests using the React Testing Library and Cypress.

Software Engineer

Cambio

📅 Mar 2020 - Mar 2021

📍 Colombo, Sri Lanka

- Contributed to the development of both client and server modules for the Cosmic Application, leveraging Java for back-end services and Angular for front-end components.
- Developed and maintained Cosmic cross-platform mobile application using React Native, ensuring optimal performance and user experience.
- Improved software quality by implementing unit and integration tests using JUnit and TestNG, ensuring reliability and stability across deployments.
- Conducted code validation tasks and resolved SonarQube issues using Git, Maven, and Jenkins to maintain high code quality and streamline CI/CD processes.

Education

Master of Information Technology

RMIT University

📅 Feb 2023 - Nov 2024

📍 Melbourne, Australia

- Specialised in Cloud Computing and Big Data Management
- Graduated with Distinction, attaining a GPA of 3.80/4.00

B.Sc. (Hons.) in Management and Information Technology

University of Kelaniya

📅 Feb 2016 - March 2020

📍 Kelaniya, Sri Lanka

- Specialised in Information Technology
- Attained a GPA of 3.84 out of 4.00, obtaining a First Class.

Skills

- **Programming languages** – Python, Java, JavaScript, TypeScript, Ballerina and Bash
- **Frameworks and tools** – React, Next.js, Angular, Node.js, Express, Spring Boot, Firebase, Git, Agile, and Testing (TestNG, Cypress)
- **Databases** – MySQL, MongoDB, MSSQL, Firestore, and Sqlite
- **Cloud computing and DevOps tools** – AWS, Azure, GCP, Docker, and Kubernetes
- **API Protocols** – REST and GraphQL
- **UI/UX design tools** – Figma, Adobe XD, Adobe Photoshop, and Adobe Illustrator
- **Mobile App Development** – Android, Swift (iOS), and React Native
- **Project Management** – Trello, Jira, Miro
- **Soft Skills** – Teamwork, Communication, Problem-solving, Critical thinking, Time-management

Achievements

- Placements on Dean's List in all four academic years of B.Sc.
- Director of Business Development (2019) of the LED club at the University of Kelaniya.
- Awarded as the Winner team of the Inventio 2017 competition organised by the University of Kelaniya.
- Became the 1st Runner-Up team in the CodeSprint 4.0 hackathon organised by IIT Sri Lanka.
- Semi-finalist of Biz Minds business planning competition organised by the Young Entrepreneurs' Association of the University of Kelaniya.

Volunteering

- Peer mentor (2023 - 2024) at RMIT University
- Volunteer (2024) at RUSU, RMIT University

References

- Available upon request.