

Suraj Singh Ramanuj Singh

+32 467 71 99 39 | [Email](#) | [LinkedIn](#) | [Github](#) | [Belgium](#)

Professional Summary

Senior Software AI Engineer with **10+ years** of experience designing and scaling distributed systems, microservices, and cloud-native applications. Proven track record in leading engineering teams, optimizing performance, and delivering enterprise-grade solutions for global clients. Skilled in **Full stack development (Java, Node.js, React, Angular), System design, and DevOps (Kubernetes, AWS, Azure)**. Passionate about building innovative solutions, mentoring teams, and driving impactful projects.

Technical Skills

Languages: Java, Javascript, Typescript, SQL

Frameworks & Tools: Spring Boot, Spring Security, JPA, Hibernate, NestJs, NextJs, React, Angular, Apache Kafka, RabbitMQ, Apache Camel

TDD: Junit, Mockito, PowerMock, Mocha, Jest, Chai, Sinon

Databases: PostgreSQL, MySQL, MongoDB, CouchDB, Redis, ElasticSearch

Cloud & DevOps: AWS, Azure, CI/CD (Github Actions, Jenkins), Docker, Git, Jenkins, Kubernetes

AI: ChatModels, ChatHistory, Langchain, Langgraph, Vectorstore, AIEmbeddings, RAG

Other: Distributed Systems, Microservice Architecture, System Design, Agile/Scrum, JIRA, REST

Professional Experience

Senior Technical Lead | ING | Feb 2025 - Present

- Developed full-stack services enabling seamless KYC data sharing across four leading Belgian banks, enhancing regulatory compliance and interoperability.
- Accelerated feature delivery by 40% through automation of POJO and mapping class generation, reducing manual effort and errors.
- Strengthened cross-team collaboration to ensure efficient, high-quality release cycles without compromising on delivery timelines.

Senior Software Engineer | Sciensano | Feb 2022 - Dec 2025

- Engineered full-stack services enabling hospitals across Belgium to securely submit disease-related forms, supporting large-scale medical research and drug development initiatives.
- Independently migrated a Spring-based Java 8 service to Spring Boot Java 21, eliminating 20% of high-severity vulnerabilities and modernizing the tech stack for improved security and performance.

Senior Software Application Engineer | Extreme Networks | Jun 2019 - Jan 2022

- Developed full-stack solutions empowering medium to large organizations to manage and monitor digital assets across their networks.
- Designed and implemented a topological visualization of connected devices, improving search and navigation efficiency by 15%.
- Boosted backend performance by 30% through the integration of Elasticsearch and

caching mechanisms for large-scale device data retrieval.

Software Engineer | Scientific Games | Dec 2018 - Jun 2019

- Contributed as a Backend Engineer to enhance the quality and reliability of the operating system powering Casio EGM gaming machines.
- Tested and validated OS software across multiple motherboard versions, ensuring stability, compatibility, and seamless performance in production environments.

Software Engineer | Cerner Healthcare | Apr 2017 - Dec 2018

- Built full-stack messaging services and integrated allergy-check components to ensure safe drug prescriptions for patients.
- Implemented WebSocket-based real-time communication, reducing hospital staff message latency from several seconds to instant delivery.

Software Developer | Subex | Jan 2015 - Apr 2017

- Developed backend services for a settlement application handling complex CDR (Call Detail Record) parsing and refinement between multiple telecom operators.
- Automated the deal-import process, reducing execution time from several days of manual effort to just minutes, significantly improving operational efficiency.

Personal Projects

EQMS (Enterprise Quality Management System)

- Designed and developed a full-stack application from scratch to create and manage procedures in a drug manufacturing unit.
- Digitized a traditionally paper-based Quality Management System (QMS), enabling real-time updates, improved traceability, and streamlined procedure management for stakeholders.

AI Knowledge Assistant (In Progress)

- Building an AI-powered knowledge assistant capable of answering software engineering questions, with planned expansion to cover additional niche domains.
- Designed to explore AI integration while providing users with reliable information on specialized topics not easily accessible on the web.

Languages

English, Hindi, Kannada, Tamil (Fluent)

French (Basic)

Education

Bachelor of Technology (B.Tech) in Computer Science | South East Asian College of Engineering | 2014