

Yogeshkumar Ghanshyambhai Lakhani

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Skills

Programming Languages: Java, JavaScript, MySQL, C++, Python

Frameworks and Libraries: Spring Boot, Node.js, Express.js, React.js, LangChain, Pinecone

Tools and Technologies: PL/SQL, MongoDB, Docker, AWS, Azure, GCP, GitHub Actions, CI/CD, DevOps, Agile

Software Development: Design Patterns, Software Development Life Cycle (SDLC), RESTful API, JUnit

Methodologies: Object-Oriented Programming (OOP), Test-Driven Development (TDD), Microservices Architecture

Work Experience

SureSteps

Austin, TX, USA

Software Engineer

Dec 2024 - Present

- Developed CI/CD pipelines in GitLab, reducing build times from 15 to 7 minutes, and increased deployment frequency to an average of 6 times daily, enhancing feature delivery by 40%.
- Designed and implemented comprehensive test suites for a Next.js and React application, enhancing code coverage by 95% and significantly improving application reliability through unit testing.

Altheon AI

Chicago, IL, USA

Full-Stack Software Engineer

Oct 2024 - Mar 2025

- Developed an insurance claims web app to **automate** damaged item claims for a moving company.
- Built a **React.js** frontend and **Fast API** in Python, utilizing **design patterns** to create scalable and maintainable code.
- Reduced claim processing time by **50%**, boosting customer satisfaction and streamlining bookkeeping.

Radical X Co.

New York, USA

Software Engineering Intern

Jun 2024 - Aug 2024

- Built 'KAI', an **AI** teaching assistant chatbot, which enhanced interactive learning by generating quizzes from YouTube links.
- Built a responsive UI with **React.js** and **Material UI**, and built backend services using Node.js and Firestore, integrating Gemini AI API for quiz generation.
- Ensured** reliability through thorough testing, employing design patterns and **test-driven development** (TDD) principles, resulting in increased user engagement and positive feedback from educators.

Grow More Seeds and Chemicals

Kampala, Uganda

Software Engineer

Mar 2021 - Sep 2022

- Delivered a scalable product inventory system with **Spring Boot** and **React.js**, increasing operational efficiency by **40%** and cutting human errors by **60%**.
- Accelerated deployment cycles by **56%** through optimized **CI/CD** pipelines using **GitHub Actions**, **Jenkins**, **Docker** and deployed cloud solutions on **AWS (Lambda, S3, EC2)**.
- Built and maintained **RESTful APIs** to integrate microservices and third-party applications seamlessly.

International University of East Africa

Kampala, Uganda

Software Engineer

Aug 2020 - Feb 2021

- Improved the university's online platform by updating Spring Boot **microservices** to support multiple assignment file types beyond PDFs, increasing submission efficiency by 60% and satisfaction among over **3,000** students and faculty.
- Built **RESTful APIs** with **Spring MVC**, **Hibernate ORM**, and **Spring Data JPA**, facilitating secure and efficient database interactions and implemented **OAuth 2.0** authentication, increasing platform security.
- Achieved 92% code coverage with **JUnit** and **Mockito**, reducing post-deployment errors by 20%.

Projects

Smart Postpartum Hemorrhage Volumetric Drape - Smart PVD

- Collaborated with biomedical engineers and built a system to quantify blood loss during labor, addressing a key cause of maternal mortality in Uganda, securing **USD 38,000** in funding.
- Programmed an **Arduino** board in C++ to collect and collate raw data using moisture sensors.

Education

DePaul University

Chicago, IL, USA

Master of Science in Computer Science – Graduate Assistant Tutor – **GPA 3.7**

Mar 2023 - Mar 2025

International University of East Africa

Kampala, Uganda

Bachelor of Science in Computer Science – **GPA 3.3**

May 2019 - Nov 2021

Aptech Computer Education

Kampala, Uganda

Associate's degree in Software Engineering – **GPA 4.0**

May 2016 - Dec 2018