

LAXMI GARDE

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EDUCATION

University of Southern California

Master of Science, Computer Science

Los Angeles, California

Aug 2021-May 2023

Cummins College of Engineering for Women, Savitribai Phule Pune University

Bachelor of Engineering, Computer Engineering (Rank 7 out of 250 students)

Pune, India

Aug 2013-May 2017

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, Go, SQL, Shell scripting

Databases: MySQL, PostgreSQL, SQLite, MongoDB, Firebase, DynamoDB

Architecture: Service Oriented Architecture, Microservices, RESTful Web Services, SOAP, Integration Pattern (EIP), Event Driven (EDA)

Technologies/Frameworks: Spring Boot, Spring Framework, Apache Camel, Kafka, AWS, MQ, ActiveMQ, JMS, Flask

Developer Tools: Maven, Gradle, Jira, Git, Jenkins, SonarQube, Docker, Kubernetes

WORK EXPERIENCE

Beyond Limits

Los Angeles, California

Software Engineering Intern

Jun 2022-Dec 2022

- Built highly scalable and available Microservices using Spring Boot to perform asynchronous file operations on AWS S3 utilizing AWS EC2, AWS SQS, and RedisMQ.
- Implemented several time-critical backend features based on user requirements while adapting to coding and Agile best practices.
- Programmed structured logging library using Spring Boot, Logback, Maven, JSON to reduce log related issues across the organization.

HSBC Software Development India

Pune, India

Senior Software Engineer

Mar 2020-Jul 2021

- Operated as Technical Lead and implemented an integration framework for upstream-downstream systems with 99.99% availability.
- Framework supported 300 business use-cases using Spring, Apache Camel, XML, JSON, REST, SOAP, J2EE, EIP, boosting trade and increasing profits in Asia region. Worked closely with teams at Hong Kong office for infrastructure, architecture design finalizations.
- Accomplished a zero-defect production go-live, streamlined project-related service acceptance criteria, NFRs, SDLC best practices.
- Upgraded applications to robust, secure REST APIs, Microservices employing Spring Boot, OAuth2, and OpenAM.
- Fine-tuned Groovy scripts to declutter and regulate Jenkins pipelines, integrating JIRA, Ansible, Checkmarx, and SonarQube CI/CD tools for all projects. Reported as Security Champion of team and handled production patches/releases critical to business.

Software Engineer

Jul 2017-Feb 2020

- Remodeled existing monolithic applications to distributed computing Microservice architecture, and developed end-to-end applications served via REST and SOAP services written in Spring, Java, facilitating real-time and scheduled workloads.
- Composed and delivered new integration features, incorporated unit testing using JUnit, and collaborated with the team, architects, and project stakeholders. Contributed to HSBC Innovation Lab to build Alexa Skills, Digital KYC in DLT prototypes to simplify banking.
- Recognized as 'Brightest New Star' at HSBC Technology Awards 2018. Trained 30 HSBC employees on CI/CD through comprehensive DevOps workshop deploying Jenkins.

IBM India

Pune, India

Project Intern

Aug 2016-May 2017

- Ensured safety of data captured by IoT devices (text, image, video) leveraging IBM SKLM managed keys, encryption, KMIP, IBM Bluemix with real-time uploads on cloud for authenticated user access.
- Co-authored a research paper on 'Data Security in IoT Devices using IBM Key Lifecycle Management' under guidance of IBM mentors.

LEADERSHIP AND INVOLVEMENT

Society of Women Engineers, Mentor (2021-2022): Engaged in presentations, discussions, hackathons, and project competitions.

HSBC, Mentor (2018-2021): Mentored new hires to get acquainted with HSBC's culture and technologies.

HSBC, CSR & Training (2018-2021): Participated in tree plantations and various CSR activities. Conducted a technical training session.

Thermax Foundation CSR, Qualitative Impact Intern (2015-2016): Committed to growth of students from low-income schools in Pune.

ACADEMIC PROJECTS

Designing Emulated Distributed File System (EDFS) for exploration of Outbreaks

Sep 2022-Dec 2022

- Developed an EDFS for distributed file storage and parallel computation, supporting basic file operations using Firebase and MySQL, Hadoop implementations to store file system metadata and provided an intuitive user interface to search and analyze outbreaks.

Auto-complete Natural Language Queries (NLQ) and convert to SQL

Mar 2022-May 2022

- Devised a system to auto-complete NLQs and predict related SQL queries (~ 98% accuracy) utilizing BERT-based conversion module for RDBMS.