

Hazel Lobo

Boston, MA | 8574378203 | lobo.ha@northeastern.edu | LinkedIn | GitHub

EXPERIENCE

Community Dreams Foundation, Orlando , FL

Aug 2024 – Present

Software Engineer

- Execute the full software development life cycle (SDLC) for the Green Contractor Platform, contributing to a 30% increase in efficiency for local businesses and contractors delivering energy-efficient and clean energy services
- Write well-designed, testable, and scalable code in Java, Ruby on Rails and C++, improving platform stability and contributed to a 20% increase in user satisfaction

Carhartt Inc, Dearborn, MI

May 2023 – Dec 2023

Software Engineer

- Enhanced D2C eCommerce platform for mobile and desktop screens, increasing accessibility score by 35 points and repeat purchases by 15% through feature and UI/UX improvements (Stack: REST API, TypeScript, ARIA, JSON, Swagger)
- Implemented dynamic product features and chat functionality, improving customer experience and service efficiency by 25%
- Optimized cart merging strategies by 75%, leveraging asynchronous calls and multithreading using Angular and Spring

BNP Paribas, Mumbai, IN

Aug 2020 – Nov 2021

Associate Software Engineer

- Developed and deployed critical banking features using J2EE, Struts, and Spring, enhancing system reliability and efficiency. Supported build processes with Maven and ensured code quality through unit testing with Mockito and JUnit
- Built a Python (Flask) based support utility for testing payment application, saving 30 hours of manual testing effort per week
- Migrated a .NET monolithic application to microservices, reducing system downtime by 40% and accelerating deployment cycles by 50% using Docker, RESTful APIs, Angular and Spring Boot
- Engineered a client analysis and payments dashboard in Node.js, React, D3.js, boosting decision-making accuracy by 20%
- Improved data quality by 35% through advanced SQL query optimization, developing Stored Procedures, and Functions. Designed an ETL pipeline that scaled from 0 to 100,000 daily active users using Talend and Spark in a three-member team
- Achieved 90% Java 11 test coverage through Jenkins in CI/CD, deploying SonarQube using EKS Kubernetes and Helm charts for code quality, reducing security vulnerabilities by 30%

Northeastern University, Boston, MA

Oct 2022 – Apr 2024

Assignment Management Portal (Stack: AWS, GCP, Javascript, PostgreSQL, Typescript, MongoDB)

- Built cloud native application that enables students to manage assignments, comprising RESTful backend API services and utilizing AWS and GCP resources for a scalable and resilient hosting infrastructure

Book Management Portal (Stack: Java, Spring Boot, AJAX, MySQL, Hibernate)

- Crafted a backend Spring MVC guided portal to allow students to search, reserve and manage university books efficiently, enhancing the overall accessibility and organization of educational resources

Indexing Big Data (Stack: ElasticSearch, Kafka, Redis, Apache Spark)

- Programmed distributed system architecture, focusing on concurrent low-latency processing and real-time analytics of large health insurance dataset, to guarantee a maximum write latency of 50 ms, ensuring efficient data ingestion and querying

PROJECTS

Sprint Planner | MongoDB, Express, ReactJS, NodeJS

- Built a role-based web app to enhance task management and progress tracking by 30%. Integrated advanced visualization tools, earning recognition for best-in-class UX design

Acne Detection with Machine Learning | PyTorch, TensorFlow, Python, Android Studio

- Developed an Acne Detection algorithm using TensorFlow and PyTorch to track and categorize facial acne. Implemented the Single Shot Detector (SSD) method for accurate, real-time detection on mobile screens

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, Go, JavaScript, NodeJS, C, Typescript, Scala

Frameworks: Spring, PySpark, Angular, React, Junit, jQuery, Hibernate, Apache Spark, Jest, Swagger, Selenium

Tools: Kubernetes, Redis, Git, Linux, ElasticSearch, Terraform, Jenkins, Kafka, Grafana, Airflow, Databricks

Web Technologies: AWS, GCP, Azure, Docker, Django, Flask, Vue, CI/CD

Databases: MySQL, Postgres, MongoDB, Spark, GraphQL, NoSQL, Hadoop, DynamoDB, Cassandra

EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Software Engineering

May 2024

Courses: Object Oriented Design; Web Tools and Development; Big Data Applications & Indexing; Databases

Leadership: Served as a Teaching Assistant, guiding students in agile methodology, database design, and modeling techniques

University of Mumbai

Mumbai, IN

Bachelor of Engineering in Computer Science

May 2020

Courses: Operating Systems; Cloud Computing; Artificial Intelligence; Server-Side Programming; Data Structures & Algorithms