

SATYADIVYA MADDIPUDI

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PROFESSIONAL EXPERIENCE

Amazon, CA | Backend Developer (Intern)

May 2023 – Aug 2023

- Spearheaded development and execution of a throttling solution in **Java**, **Guice**, rerouting 90% of throttled requests to **SQS** using **Lambda** for re-processing, resulting in a 50% reduction in sev-2 issues and improving overall system stability.
- Streamlined end-to-end comprehensive **alarms and monitors** on throttled queues through **Infrastructure as Code (IaC)** practices, increasing system visibility by 40% and ensuring early detection of potential issues.
- Achieved stretch goals by migrating configuration files to **AWS AppConfig** via IaC, enhancing configuration management by 50%, and boosting code performance by 25% through CPU usage measurement.

eDiligence, CA | Full Stack Developer (Intern)

Feb 2022 – May 2022

- Created customizable, interactive widgets using **React.js** and **Chart.js** to visualize dynamic lending club data.
- Orchestrated seamless communication between frontend and backend **Django** and **ML API's**, leading to a 30% improvement in overall application performance and user satisfaction.

HCL Technologies Ltd., India | Backend Developer

May 2020 – Dec 2021

- Developed a high-performing banking application using **Java**, **Spring Boot**, **Hibernate**, and **MySQL**, resulting in a 20% increase in user adoption and a 15% decrease in transaction processing time.
- Collaborated with cross-functional teams to enhance ING banking applications, resolving 400 critical defects, and improving reliability by 25%, resulting in a significant increase in customer satisfaction.

Talent Accurate, Canada (Remote) | Backend Developer (Intern)

Nov 2018 – Feb 2019

- Designed an end-to-end web application incorporating **Java**, **Spring Boot**, and **MySQL** to store user emotions.
- Utilized **Spring Boot**, **Rest API**, **Postman**, and **Selenium** to develop 10 resilient backend APIs, facilitating **precise forecasting** of a company's existing technology stack by analyzing employee data.

SKILLS

Languages: Java, JavaScript, Python, C++, C, C#, PL/SQL, Kotlin, Servlets

Framework & Libraries: React, Angular, Node.js, Spring Boot, Flask, Bootstrap, RESTful API

Databases: Oracle, MySQL, MongoDB, Redis, Firebase

Cloud & DevOps: AWS Services (EC2, IAM, S3, RDS, ECR, Cloud Watch, SQS, Lambda, SNS), Git, Jenkins, Docker

Enterprise Tools: Apache Kafka, Postman, SwaggerUI, Selenium, JMeter, Mockito, JUnit

EDUCATION

Master of Science in Software Engineering

Graduating Dec 2023

San Jose State University, CA, USA

GPA: 3.79/4.0

Bachelor of Technology in Computer Science and Engineering

May 2020

Sathyabama Institute of Science and Technology, Chennai, India

GPA: 3.93/4.0

Course Work: Cloud Technologies, Design Patterns, Software Platforms, Distributed Systems, Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Java Programming, Problem Solving.

ACADEMIC PROJECTS

Toxic Comment Detection [LSTM, BERT, Naive Bayes] (GitHub)

- Developed and implemented cutting-edge machine learning models, including Long Short-Term Memory (LSTM), BERT, and Naive Bayes, for toxic comment detection.
- Fine-tuned models to optimize performance, achieving high accuracy and precision scores.

Stack Overflow Clone [React, Node.js, MySQL, MongoDB, Kafka, Redis] (GitHub)

- Designed and implemented a dynamic Q&A system with features including tags, answers, badges, and analytics, resulting in a 40% increase in user engagement and a 25% reduction in response time to user inquiries.
- Engineered a 3-tier, horizontally scalable web app, managing 10K users fetching 10K questions concurrently.
- Employed S3 for file uploads, harnessed MySQL, and MongoDB for data storage, and introduced Kafka for heightened fault tolerance and system reliability.

e-commerce web application [React, Node.js, MySQL, MongoDB, GraphQL] (GitHub)(YouTube)

- Orchestrated a resilient, full-stack prototype of an e-commerce platform capable of accommodating 10,000+ users and products, leveraging AWS cloud servers, MongoDB replica sets, and fault-tolerant EC2 instances.
- Implemented a distributed architecture with Express and Node.js backend, Kafka messaging queue, and Passport.js authentication, ensuring seamless request-response cycles and secure user authentication.