# SATYADIVYA MADDIPUDI

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## PROFESSIONAL EXPERIENCE

**Amazon, CA | Software Development Engineer Intern** *May 2023 – Aug 2023*
- Spearheaded development and execution of a throttling solution in **Java, Google uice**, 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 | Software 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 | Software Engineer** *May 2020 - Dec 2021*
- Developed a high-performing banking application using **Java, SpringBoot, 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) | Software 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

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| **Languages** | : Java, JavaScript, Python, C++, C, Kotlin, HTML5/CSS, Servlets |
| **Framework & Libraries** | : ReactJS, Express, Node.js, Spring, Hibernate, Redux, Flask, Angular, RESTful API |
| **Databases** | : Oracle, MySQL, MongoDB, Redis, Firebase |
| **Cloud & DevOps** | : AWS (EC2, IAM, S3, RDS, ECR, Cloud Watch, SQS, Lambda, SNS), Git, Jenkins, Docker, Kubernetes |
| **Enterprise Tools** | : Apache Kafka, Maven, Postman, SwaggerUI, Selenium, JMeter, Mockito, Junit, Agile |

## 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.