Sai Surya Teja Maddikonda

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Full-stack software engineer and cloud-native enthusiast with 4+ years of professional software development experience and a Master's degree in Computer Science, building intuitive and robust software applications with passion and purpose.

Education

Northeastern University
Master of Science, Computer Science
Sep 2016 – Dec 2018
Boston, MA

Courses: Large-Scale Parallel Data Processing, Managing Software Development, Web Development, Programming Design Paradigms, Machine Learning, Data Mining Techniques, Algorithms, Foundations of Artificial Intelligence.

GITAM University
Bachelor of Technology, Electronics and Communication Engineering
July 2011 – Apr 2015
Visakhapatnam, India

Technical Skills

Programming languages
Java, JavaScript, TypeScript, SQL, Python (intermediate), C++ (beginner).

Front-end skills
Angular, HTML 5, CSS 3, SASS, Bootstrap, React (beginner).

Back-end skills
Spring, Hibernate, JPA, JMS, Node.js, Express.js, GraphQL, JSON, XML, RESTful web services.

Databases
MS SQL Server, Oracle, MySQL, MongoDB, SQLite, Redis.

Cloud services
AWS, Heroku, Netlify, Firebase.

Tools & software
Docker, Kubernetes, Git, SVN, Jenkins, Maven, npm, Yarn, Bash/Batch scripting (basics), Postman, Elastic Stack.

Work Experience

Casenet LLC Jan 2019 - present
Associate Software Engineer Bedford, MA

- Contributing to the 'TruCare' and 'ProAuth' projects as a full-stack software engineer, tasked with developing and maintaining the products, using Angular for the front-end, Java and Spring framework for the back-end, and MS SQL Server for the database.
- Spearheaded the project to integrate ProAuth with the Elastic Stack (Elasticsearch, Logstash, Kibana, APM) to monitor the application health and performance metrics.
- Accepted new challenges and responsibilities—orchestrated the upgrade and successful integration of 'OpenText's RightFax' Fax server with TruCare; collaborated with DevOps teams in implementing AWS-cloud hosted on-demand E2E test runner instances; and streamlined the process of releasing ProAuth database schema changes.

FactSet Research Systems May-Dec 2017
Software Engineering Intern New York City, NY

- Spearheaded the development of a new chat-integrated Fixed Income Request-for-Quote workflow for FactSet's Execution Management System (EMS), which replaces the traditional phone-based process and improves the trader's time efficiency by 80%.
- Revamped the 'FIX Message Viewer' which boosted its message parsing speed by 35%.

Portware (a FactSet company) May 2015 – July 2016
Associate Software Engineer Hyderabad, India

- Acquired development ownership of the 'Order Execution (OE) App' plugin—a crucial, high-volume order routing venue of Portware's EMS—in a short span of 5 months.
- Developed major features and delivered customized client implementations of OE App; revamped its workflow to make it more extensible and execute trades 40% faster.
- Advanced as a single-point-of-contact for a major asset management client, delivering software enhancements, maintenance, incident analysis, and developer-support.

Projects

FormSaver: Automatic Form Progress Saver Microservice (personal project)
Designed and implemented a containerized 'form saver' Node.js microservice that automatically persists the fields of in-progress forms to a MongoDB database in real-time, thereby saving user's time in refilling the form fields in case the user's session is timed out.

Prattle Chatter: Java Chat Application
Built a multi-threaded socket chat application with features like user-chat, group-chat, multiple MIME type messages, read receipts, message queuing, blocking abusive language, and encryption. Used Java and Spring Boot for the chat server, Angular for the chat client, and MySQL for the database and RESTful web services for client-server communication.

Hackathon Hawk: Hackathon Finder Web App
Developed a MEAN-stack (MongoDB, Express.js, Angular, Node.js) hackathon-finder single-page application where organizers can post the details of upcoming hackathons and users can search and bookmark hackathons, interact with organizers, and form teams.

Distributed k-NN: Distributed Machine Learning Model
Implemented a parallelized k-NN classifier algorithm for NIST handwriting recognition data. Experimented with Broadcast Join and 1-Bucket Partitioning techniques to partition the data among nodes, using Hadoop MapReduce and Spark instances running on AWS.