

# SRI CHARAN REDDY MALLU

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## EDUCATION

### **Master of Science in Computer Software Engineering**

Aug 2023 - Present

San Jose State University, California

### **Bachelor of Technology in Computer Science**

Jul 2016 - Jun 2020

National Institute of Technology Karnataka, India

## SKILLS

Languages: Java, Python, C++, C, C#, HTML/CSS, JavaScript, TypeScript, XML, SQL, PHP, React.js, Node.js, Rails, Express.js

Softwares: AWS, Kubernetes, Jenkins, PostgreSQL, Google Cloud, MongoDB, Docker, Linux, Git, Tomcat, Postman

Frameworks/Tools: Spring Boot, Angular, React, Ruby, AWS SDK, JPA, Hibernate, Amazon Coral & smithy, Flask, Django, Junit, Tensorflow, Keras, PowerBI, scikit-learn, OpenCV, PyTorch

## EXPERIENCE

### **Software Development Engineer, Amazon, Hyderabad, India**

Jul 2020 - Jul 2023

- Led the design and development of Vendor Holdback Domain Service as part of Kubernetes architecture migration program, using AWS technologies of EKS, Lambda, Dynamodb and other, increased application performance by 80%.
- Designed and migrated legacy VendorReceivablesServie using React 17, SpringBoot hosted on Amazon Apollo that serve 500K+ requests daily; reduced operational burdens and simplified root cause analysis of the application.
- Involved in continuous Integration/Deployment, unit/regression testing, code reviews and configuring app metrics.
- Mentored a software development intern and hence got opportunity to apply 14 distinct leadership principles in task delegation and collaborative interactions.

### **Software Development Intern, Thermo Fisher Scientific, Bengaluru, India**

May 2019 - Jul 2019

- Implemented real-time data transfer in dataStreamPro, a web application for Server Sent Events and Polling, using Angular integrated with .NET and C# backend services, resulting in a 40% reduction in data processing time and improved overall system efficiency.
- Customized application using libraries like PrimeNG, demonstrating adaptability in technology integration to the application.
- This application helped cross functional teams with real time data and technologies integration with DataStreamPro.

### **Software Development Intern, IBM, Hyderabad, India**

May 2018 - Jul 2018

- Collaborated with team of 4 to create virtual environment and trained robot with deep learning models on real data.
- Optimized robot navigation to achieve 99% accuracy in reaching teaching jig object through the utilization of CNN and LSTM models using Google Cloud AI Platform and Google Cloud Storage .
- Employed OpenCV using Google Cloud Vision AI for image processing. reducing navigation errors to 0.1%.

## PROJECTS

### **NITK Chatbot, NIT Karnataka, India**

Aug 2019 - Dec 2019

- Developed a chatbot web application utilizing Dialogflow API for input processing, NodeJS and MongoDB for backend data management. Deployed on a public IP using ngrok for accessibility.
- Volunteered to integrate chatbot into NIT Karnataka campus website, facilitating over 5000 students on campus related queries related to academics, sports, events and dining.

### **EventHub Connect, NIT Karnataka, India**

Aug 2018 - Dec 2018

- Developed a location-based event discovery platform using MongoDB, Express.js, ReactJS, and Node.js, facilitating exploration of nearby events through Mapbox integration.
- Integrated machine learning algorithms to continuously enhance and tailor event suggestions.

## PUBLICATION

**Academic Curriculum Load Balancing using GA** M. Chakradhar; M. Sri Charan; R. Umesh Sai; Y.V.S. Murthy; G.K.

Shashidhar 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT) Year: 2019 | Conference Paper | Publisher: IEEE

## OTHERS

- Achieved 679 rank among 1.3 million aspirants in JEE mains, an entrance level examination for bachelor's of technology institutes in India.
- 2017 and 2018 Internation College Programming Contest (ICPC) regionalist from NIT Karnataka.
- Core CS group admin member of IEEE club at NIT Karnataka.