

Karthik Boddu

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EDUCATION

MONTCLAIR STATE UNIVERSITY
MASTERS IN COMPUTER SCIENCE
May 2024 | Montclair, NJ

LINKS

Github:// [brkuhgk](#)
Twitter:// [@MRX_SDE](#)
LinkedIn:// [karthik-boddu](#)

SKILLS

BackEnd

Java • SpringCore • SpringBoot •
SpringMVC
Hibernate(ORM) • Spring JPA • Spring
REST • NodeJS

FrontEnd

ReactJS • NextJS • JQuery

Database

SQL • Postgres • MongoDB Tools

Maven • Yarn • npm

Cloud

Docker • AWS core

INTERESTS

Open-Source contribution
Software Engineering
Micro service Architecture
AWS Cloud Computing
Containerization
Data Structures & Algorithms
Shell Scripting

LANGUAGES

- English
- Telugu

EXPERIENCE

MONTCLAIR CESAC | RESEARCH ASSISTANT [FULLSTACK DEV]

May 2023 - Jan 2024 | Montclair, NJ

- Implemented **REST API** using **Spring Boot**, interaction with ML model
- Utilized **asynchronous** processing and **caching** to boost system throughput and reduce latency.
- **Tested** by simulating over **10,000** concurrent users, to accurately identify system bottlenecks.

INDIAN SERVERS | MACHINE LEARNING INTERN [FULLSTACK DEV]

June 2021 - Aug 2021 | VIJ, IND

- Integrated **Redux** into **ReactJS** application to manage the application state more effectively for handling large volumes of image data efficiently.
- Collaborated with a team to develop and train a ML model, deployed it on **AWS** for production use.

PROJECTS

AUTONOMOUS GO-KART

- Guided by **Prof.Wang**, I led a team of 10, distributed 5 distinct **weekly tasks** and hosted **regular meetings** to enhance outcomes.
- Developed a compact **server** using **Spring Boot (Java)** and C++ for sensor-actuator communication.
- Boosted data handling efficiency by **40%** through **Java multi-threading** for concurrent sensor streams.

TWENTY | OPENSOURCE PROJECT LINK→

TechStack: ReactJS, NextJS, ChakraUI, PostgreSQL, Docker

- Resolved **issue #4502** in open-source **CRM** repository by **debugging** with **ReactJS**, enhanced user navigation.

COLLABORATIVE NOTE-TAKING-APP | SIDE PROJECT LINK→

TechStack: ReactJS, NodeJS, MongoDB, Socket.IO

- Developed Real-time Collaborative Editing, Note Saving, Conflict Resolution, Easy-to-Use Interface

ACHIEVEMENTS

2022	National	TCS HackQuest Finalist
2022	1/300	Coding Hackathon
2021	1/50	Engineering Technical Quiz Competition
2019	3 th /40	Technical Model Exhibition Competition
2018	1 nd /300	CS DSA coding Competition
2016	State	Awarded with 100% Fee Reimbursement for 6 years

PUBLICATIONS

- 2021 K. Boddu, S. M, and S. N. "Tracking missing objects in a video using yolo3 in cloudlet network." SpringerLink →.
- 2022 Y. T. Karthik Boddu, Lohitha Boyina. "Classification of uncertain ImageNet retinal diseases using ResNet model." International Journal of Intelligent Systems and Applications in Engineering, IJISAE →