Ranjeet Mallipeddi

Software Engineer/ Full Stack Developer

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I am a graduate student pursuing my Masters in Computer Science at the University of Florida seeking internship opportunities as a Full Stack Developer/Software Engineer.

Technical Skills

- **Languages**: C | Java | Javascript | HTML | CSS | SQL | Python | F#
- **Frameworks & Libraries**: React JS | NodeJS | AKKA.net | NumPy | Pandas | TensorFlow | Keras | scikit-learn
- **Tools**: MySQL | Git | IntelliJ | Visual Studio | Jupyter Notebooks | Spyder | Postman | Latex | MS-Excel
- **Other Skills**: Data Structures | Algorithms | Distributed Systems | Database Management | Web Development | Data Mining | Machine Learning | Computer Networks

Education

- **University of Florida** — August 2021 - Present
  Masters in Computer Science — **GPA : 3.89/4**
- **JNTUH College of Engineering Hyderabad** — August 2016 - May 2020
  B.TECH in Computer Science and Engineering — **GPA : 7.89/10**

Experience

UF-IFAS — *January 2022 - Present*

Front-End/React Developer Intern

- Created features to enhance the user experience while ensuring that web design is optimised for smart phones and ipads screens.
- Handled Internalisation for the web application. So that the website can be translated to English and spanish.
- Built reusable components from existing components for future use.
- Managed consistency throughout the design and maintained and improved the website by adding more features and functionality.

Quantium — *January 2020 - July 2020*

Intern

- Performed Pricing Ladders, Source of Volume and various analysis to identify customer purchase patterns for specific products.
- Evaluated the change in customer behaviour during COVID to address the out-of-stock issue.
- Analyzed the business with existing clients to discover potential opportunities to increase revenue.

Engineering Projects

Distributed Computing using AKKA Framework and F# — GitHub Demo

- **Twitter Engine API Implementation using WebSockets** -
  - Developed and Designed a Distributed system with the use of AKKA Actor Model.
  - Where the users can tweet, log in, register, follow other users, retrieve tweets based on hashtags and mentions other users.
  - When ever there is an activity like mentioning a user or if a new tweet has been posted by someone the user is following the users get all the live notifications and tweets as websockets have been used in both frontend and backend.
- **Bitcoin Mining Simulator** - Created bitcoin mining engine using F# to run on multiple machines.
- **Gossip Protocol** - Used gossip protocol for rapid transmission of messages using Actor Model.
- **Chord Protocol Simulator** - Used Actor Model to simulate message routing using Chord Protocol.

Parrot - Social Network Website

- It is a social networking application for colleges where people can connect to their peers from their college and create communities and have discussions.
- Developed in react js, node js, postgresql and redis.
- Also developed a tracking tool like JIRA/Kanban boards where I can create tickets/issues and move them into to-do, in-progress or completed to keep track of this project.

Evaluation of Handwritten Equation using CNN — GitHub

- Implemented a Convolutional Neural Network in python and an image segmentation model using openCV which segments the characters in an image. The CNN model then classifies the segments.
- This model works with 98% accuracy.
- Developed using python, openCV, Keras.

Unix/Linux File System Tree Implementation — GitHub

- Designed and implemented a C program to simulate the Unix/Linux file system tree.