MOHAN RAJ CHANDRASEKAR

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Summary .

Versatile software engineer with 4 years' experience in full-stack development, cloud computing, and open-source contribution. Proven expert in delivering innovative solutions, enriching ML and distributed systems communities, and excelling in hackathons.

Skills

- Java | JavaScript | C# | Golang | Ruby | Rust | Python | TypeScript | React | Redux | R | Dart | PHP | Scala | C | C++ | NodeJS | Clojure
- SQL | NoSQL | Hadoop | Spark | Kafka | Hive | Redis | Spring | Shell | Docker | Kubernetes | Jenkins | TensorFlow | PyTorch | Swift | Kotlin
- AWS | Cloud Computing | Azure | Microservices | Full-Stack | Android | iOS | Cybersecurity | Linux | DevOps | Git | Agile | OOP | CI/CD

Professional Experience

Full Stack Developer Intern

Feliciti.co

San Francisco, CA

07/2023 - Present

- Developing a full-stack messenger application utilizing MongoDB, Express.js, React.js, and Node.js, aimed at enhancing user communication and operational efficiency.
- Implementing an Al-driven matching algorithm using principles of Machine Learning and Generative AI, targeting an increase in user match precision and improving the co-living experience for diverse user groups.
- Integrating a chatbot into the messenger service using Natural Language Processing (NLP) and Language Models (LLM) with the goal of enhancing user interaction and reducing response time.

Research Assistant

Human Computer Interaction Lab

Santa Clara, CA

11/2022 - Present

- Under Dr. Kai Lukoff, Experimented with fine-tuning a neural network, aiming to classify Reddit users based on their interaction with subreddits. This novel approach resulted in a 30% increase in user classification accuracy, significantly improving the user experience.
- Implemented advanced data cleaning methods utilizing spaCy and textacy libraries, successfully extracting meaningful information from an expansive Reddit dataset. This process increased data accuracy by 30%.

Member Technical Staff

Zoho Corporation

Chennai, India

02/2020 - 09/2022

- Led the development and implementation of a critical 'Instant Messaging' feature on Zoho Desk, facilitating seamless communication between customers and businesses across various popular IM channels including WhatsApp, Telegram, LINE, and WeChat.
- The Instant Messaging feature, built with Java, HBase, Kafka, and Redis and utilizing Websockets for real-time data transmission, managed efficient server-client communication, effectively handling up to 2 Million requests.
- Through strategic re-architecture of the existing system and utilization of Python, R, Pytorch, Tensorflow, and Scikit-Learn, achieved a 30% boost in ZIA Anomaly prediction effectiveness and incorporated a Business Hours prediction algorithm.
- Played a pivotal role in mentoring new Software Developers, facilitating knowledge transfer, and continual learning in the team

Member Technical Staff

Zoho Corporation

Chennai, India 07/2018 - 02/2020

- Revamped the core architecture of DB Synchronization for interconnected products using advanced technologies like Java, RESTful APIs, RabbitMQ, and Parallel Computing, incorporating the Pub/Sub model. This overhaul boosted system efficiency and throughput by 50%.
- Implemented full automation of synchronization among integrated products, bolstering data transmission efficiency and cutting latency by 60%, while ensuring secure operations. This optimization also brought processing times down from hours to mere minutes.
- Introduced priority levels within modules and integrated parallel computing, which notably boosted the data transfer limit by 1 Million and implemented thorough audits. This enhancement boosted system performance and trustworthiness.
- Engaged in on-campus recruitment, conducting interviews to shortlist candidates from a 1,000+ student pool.

Education

Santa Clara University

Santa Clara, CA, USA 09/2022 - 03/2024

Major in Computer Science and Engineering. [Coursework: Data Structures and Algorithm, Artificial Intelligence, Computer Architecture]

Bachelor of Science

Master of Science

Anna University

Chennai, India 06/2014 - 06/2018

· Major in Computer Science and Engineering. [Coursework: Distributed Systems, Cloud Computing, Operating Systems, Network Security]

Projects

- Open Source Contributor: Contributed to key open-source projects in distributed systems and machine learning including ray.io, TensorFlow, and Apache Flink, enhancing scalability, performance, thereby accelerating model training and data processing. (Present)
- Transformers-Based Sentiment Analysis System: Developed a sentiment analysis model utilizing Hugging Face Transformers, improving accuracy by 15% on a 2 Million-Tweet dataset, demonstrating adept utilization of open-source LLM's. (04/2023)
- Automated Text Classification: Leveraged Python and Rust to design an automated text classification system using spaCy, achieving an F1 score of 0.85 over a corpus of 500k documents, highlighting expertise in various ML platforms. (02/2023)

Achievements

- Hack For Humanity: Won hackathon empowering kids' online safety with parental control among 350+ participants. (02/2023)
- INRIX Hack: Clinched victory in an extensive Hackathon featuring over 250+ competitors, recognized by the CEO of INRIX. (11/2022)