

Kodanda Polluri

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EDUCATION

GEORGIA STATE UNIVERSITY (GPA - 3.8)

Master of Science in Data Science and Analytics, Concentration in Big Data and Machine Learning

Aug 2022 - Dec 2023

Atlanta, GA

IIT GUWAHATI

Post Graduate Certification in AI and ML

Aug 2020 - Oct 2021

INDIA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY (GVPCOE College) (GPA - 3.6)

Bachelor of Technology in Computer Science and Engineering

May 2013 - Apr 2017

Visakhapatnam, INDIA

SKILLS

- **Technologies:** Object Oriented Programming, Java, Spring Boot, Spring MVC, Javascript, Typescript, NodeJS, ExpressJS, GraphQL, ReactJS, Angular, HTML5, CSS3, Python, Django, Kafka, Apache Spark, Redis, RabbitMQ, Data Structures, Rest APIs, gRPC, Kubernetes, Docker, Microservices, Elastic Search, Logstash, Kibana
- **Cloud:** AWS EC2, ECS, IAM, SQS, CloudWatch Serverless, Lambda, API Gateway, DynamoDB, CloudFront, SNS, S3
- **Data Science:** Machine Learning, Deep Learning, Scikit-Learn, Numpy, Pandas, Tensorflow, Keras, Pytorch, Computer Vision, NLP, Transformers, GPT, BERT
- **Tools:** GIT, Linux, Mac, Windows, VS Code, IntelliJ Idea, Eclipse, Jenkins, CI/CD, Splunk, Datadog

RELEVANT EXPERIENCE

ResMed

Senior Software Development Engineer

May 2023 – Jul 2023

Hyderabad, IND

- Created Rest APIs using **Node.js**, **Express.js** and **MSSQL** to provide user analytics, which facilitated decisions to migrate from one identity platform to another.
- Developed **Cron Jobs** to ingest data from various data sources and process data.

Unify Technologies

Senior Software Development Engineer

Apr 2022 – Jul 2022

Hyderabad, IND

- Developed high-performance data pipeline employing **Apache Kafka** and **AWS SQS**, leading to a 40% decrease in data transfer time.
- Developed multitenant healthcare application using **Microservices** using **Java**, **Spring Boot**, **Spring Cloud**, **PostgreSQL** attaining an average API response time of less than 100 milliseconds and handling a peak load of 100000 concurrent requests.
- Designed scalable architecture and database schema for the application from scratch.
- Deployed microservices using Docker and Kubernetes on **AWS EKS** and **Cloud Formation**.
- Developed UI using **ReactJS**.
- Lead a team of 10 members including backend engineers, frontend engineers and testers.

Torre Capital

Fullstack Developer

May 2021 – Apr 2022

Bengaluru, IND

- Developed a platform for trading of various financial instruments (Startup ESOPS, Futures, Options etc).
- Successfully implemented POCs for tokenization of shares using **Solidity**.
- Designed scalable and secure microservices architecture using **Java**, **Spring Boot**, **Spring Cloud**, **MySQL**, and **AWS**.
- Consolidated data to provide a comprehensive analytics of investments, enabling better decision-making.
- Developed dashboard using **ReactJS**, **Redux**, **Webpack**.
- Implemented Object-Oriented design and various design patterns to develop scalable, secure and maintainable code.
- Deployed microservices using **Docker** and **Kubernetes**.

Accolite Digital

Senior Software Engineer

Jul 2020 – May 2021

Hyderabad, IND

- Developed a data pipeline employing **Apache Spark (Pyspark)** and **Apache Kafka** for sensor data analysis, processing an average of 100000 data points per second with a latency of less than 100 milliseconds.
- Developed UI using **Angular**.
- Refactored monolith to microservice architecture using **Java**, **Spring Boot**, **Spring Cloud** scaling the application performance by 10x.
- Helped Fusioncharts with their **React Native** wrapper.

Gaian Solutions

Member of Technical Staff II

Mar 2020 – Jul 2020

Hyderabad, IND

- Deployed REST APIs using **Java**, **Spring Boot** and **MySQL** attaining a mean response time less than 100 ms.

- Deployed application using **Docker, Kubernetes** on **AWS EC2** instances.
- Designed and deployed the **MySQL** cluster in the form of write server and read replicas.
- Deployed UI using **ReactJS** and **Recharts**.
- Implemented caching systems using Spring Cache and Redis to improve API response times, leading to a 30% increase in total system performance.

Uclid Edulabs

Nov 2017 – Mar 2020

Principal Architect

Hyderabad, IND

- Developed mobile app using **React Native**, resulting in a user-friendly and responsive application.
- Built scalable REST APIs using **Node.js, ExpressJS, Typescript** and **MongoDB** for smooth data retrieval and manipulation.
- Developed dashboard UI for various analytics for the complex structure of the hierarchical data using **ReactJS, Redux**.
- Lead a team of 4 developers and helped them grow in their respective roles.
- Played a key role in shaping the product.

Knappily

Jun 2017 – Nov 2017

Software Engineer

Bengaluru, IND

- Developed analytics dashboard for the test takers of Indian Administrative Services using **Spring Boot** and **MySQL**
- Developed the dashboard using **Angular** and provided various insights in the form of charts.

Apxor

Dec 2016 – May 2017

Software Engineer (intern)

Hyderabad, IND

- Developed Rest apis using **Scala & Play framework**
- Developed behavioral graph using **D3.JS** and developed dashboard UI using **ReactJS** and **Redux**

RESEARCH AND PUBLICATIONS

- Currently working towards a research on Prediction of brain networks from the genome where I would initially use the polygenic risk scores and fMRI data to predict which brain networks contribute more towards each brain disease using 3D CNN
- Cardiovascular Disease Prediction using ML (<https://ijsrem.com/download/cardiovascular-disease-prediction-using-ml/>)

Certifications

- AWS Associate Developer
- Post Graduate Certification in AI and ML - IIT Guwahati
- Deeplearning.ai TensorFlow Developer Professional Certificate
- Advance Your Skills as an Apache Spark Specialist
- IBM AI Engineering Professional Certificate
- IBM Data Science Professional Certificate

PROJECTS

Prediction of age from brain fmri

- Used UK Biobank data that is processed through ICA. Developed UNET, RESNET and AlexNET and Achieved an MAE of 5.

Demand Forecasting

- Used private Store data.
- Developed, trained, and compared various deep learning models (CNN, LSTM, CNN-LSTM) along with ARIMA and SARIMA for prediction. Achieved R2 7.2 and RMSE 10.8.

Sentiment Analysis

- Used Sentiment140 dataset from kaggle.
- Utilized techniques like TF-IDF or word embeddings to represent text as numerical features. Employed classification algorithms such as Logistic Regression, Naive Bayes, or Support Vector Machines.

Auto Text Generation

- Implemented a Next Word Prediction model using Long Short-Term Memory (LSTM) architecture and Natural Language Processing (NLP) techniques within the Keras and NLTK frameworks.
- The project's aim was to develop a model capable of predicting the most probable next word in a sentence, showcasing a strong grasp of sequential data modeling and text generation.

AWARDS AND ACHIEVEMENTS

- Received Mr.Captain Award in Uclid Edulabs for leading the team to success during a pressure time and helping to release a startup product which gained attention of the angel investors.

