

Mohith Jothi Kannan

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EDUCATION

- **Arizona State University** Aug 2022 – May 2024
Master of Science in Computer Science; GPA: 3.89/4.0
Tempe, AZ
 - **Relevant Coursework:** Foundations of Algorithms, Software Security, Software Testing, Data Processing at Scale, Data Mining, Spatial Data Science, Natural Language Processing
- **Vellore Institute of Technology** Jul 2017 – Jun 2021
Bachelor of Technology in Computer Science; GPA: 8.39/10.0
Vellore, India
 - **Relevant Coursework:** Data Structures & Algorithms, Database Management, Operating Systems, Web Programming, Software Engineering, Theory of Compilers, Computer Networks, High Performance Computing, Data Visualization

EXPERIENCE

- **Full Stack Developer** Jun 2023 – Present
iQuadra Information Services
Atlanta, GA
 - Engineered **serverless** Manufacturing Queue web apps, allowing Bernard Group's warehouse coordinators to monitor jobs & track the status of orders
 - Architected AWS **CloudFormation** Stack for the Queues establishing duplex connections thorough NodeJS **Lambdas** with **dynamoDB** via **WebSocketAPI**, to stream & update operational live data, eliminating network latency by **18%**
 - Designed an **Natural Language Processing** based **web scraping** model using Spacy Python, esclating iQuizUAnswer marketing productivity by **55%** in outreach activities cutting down manual search
 - Implemented a responsive app with **Redux** based ReactJS state management & **NodeJS** backend empowering the marketing team with an interactive dashboard to access web scrapped data stored in AWS RDS
- **Data Engineer** July 2021 – Aug 2022
Wipro Limited
Bengaluru, India
 - Built logical schema of organisational process, performed **ETL** procedures & carried out validation for sustainability KPI of 3 affiliates in SABIC Corporation using the data historian software
 - Conducted data migration for all organizational elements from Microsoft SQL Server to OSIssoft Servers for further analytics
 - Designed interactive **Tableau** dashboards for comprehensive visualization of sustainability KPI metrics, collaborated with clients to identify & implement a targeted **6% reduction** in CO2 emissions

ACADEMIC PROJECTS

- **Moving Object Trajectory Data Visualization** Nov 2022
Spark SQL, Scala, Finagle API, React, Deck.gl, JavaScript
Arizona State University
 - Developed a full-stack application leveraging Spark SQL to perform **Spatial range, Spatio-temporal range & KNN** queries on NYC taxi trips dataset enabling efficient data exploration & decision-making based on spatio-temporal aspects
 - Implemented query result retrieval using the **Finagle API** in **Scala**, allowing seamless communication with the backend to retrieve & process query results within **300 milliseconds** on an average
 - Rendered realtime responsive spatial visualizations enabling stakeholders to understand movement patterns, identify hotspots, & make informed decisions for urban planning with the **deck.gl React** library
- **Air Quality Prediction App** Apr 2021
Python, TensorFlow, Scikit-learn, Seaborn
Vellore Institute of Technology
 - Utilized OpenWeather API to retrieve **real-time** weather for predictive analysis & developed web app that forecasts PM2.5 levels with a trained **random forest ML model** that has an accuracy of **67%**
 - Achieved **3rd** rank at the 2021 Saltiga **IEEE Conference** by conducting data mining for optimal model selection using historical pollution data & presenting compelling findings from **Exploratory Data Analysis**
- **Facial Detection based Attendance Management System** Nov 2020
Python, OpenCV, ReactJS
Vellore Institute of Technology
 - A python-based face detection/recognition system designed using Haar Cascade & Linear Binary Pattern Histogram algorithm for campuses to regulate entry of only fully vaccinated individuals.
 - Leveraged OpenCV for robust image processing, coupled with an adaptive & responsive user interface using ReactJS

SKILLS

- **Languages:** Java, JavaScript (ES13), Python, C/C++, TypeScript, SQL, Scala
- **Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB
- **Web Technologies:** React, Redux, , Node.js, Vert.x, SpringBoot, HTML/CSS, Websocket API, RESTful API, GraphQL
- **Machine Learning Libraries:** TensorFlow, PyTorch, Scikit-learn, Spacy, Matplotlib, SciPy, Numpy, Pandas
- **Tools:** Git, Postman, JUnit, Selenium, Linux/Unix, Jira, AWS(Lambda, APIGateway, EventBridge, S3), Tableau, Jenkins, CI/CD