

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:** Data Processing at Scale, Foundations of Algorithms, Data Mining, Software Security, Spatial Data Science & Engineering, 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 Intern** Jun 2023 – Present
iQuadra Information Services LLC.
Atlanta, GA
 - Employed **Python** & **NLP** based web scraping to support the iQuizUAnswer marketing team in outreach activities
 - Engineered a **serverless** full-stack app using **React** & **AWS(Lambda, API Gateway, PostgreSQL)** empowering the marketing team with an interactive dashboard to access web scrapped data
- **OSIsoft PI Developer** July 2021 – Aug 2022
Wipro Limited
Bengaluru, India
 - Built logical schema of organisational process, performed **ETL** procedures and carried out validation for sustainability KPI of 3 affiliates in SABIC Corporation using the data historian software
 - Wrote optimized **SQL** queries to fetch data for each element from Microsoft SQL Server to OSIsoft PI Server
 - Designed interactive **Tableau** dashboards for comprehensive visualization of sustainability KPI metrics, collaborating with clients to identify and implement a targeted **6% reduction** in CO2 emissions
- **Software Developer Intern** May 2019 – Jun 2019
NLC India Limited
Chennai, India
 - Achieved **73%** enhancement in usability by revamping the existing House Rent Allowance Claim System & Post-Retirement Medical Allowance Claim System web apps for the HR Department using **Bootstrap** & **PHP**
 - Delivered an array of **features**, including status tracking, performance reviews, report & receipt generation, OTP authentication, and streamlined helpline request processing

PROJECTS

- **Moving Object Trajectory Data Visualization** Nov 2022
Spark SQL, Scala, Finagle API, React, Deck.gl, JavaScript
 - Developed a **full-stack** application leveraging Spark SQL to find **spatial range**, **spatio-temporal range** & **KNN** queries on NYC taxi trips dataset enabling efficient data exploration and 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 and process query results within **900 milliseconds**
 - Leveraged the **deck.gl React** library to create spatial visualizations enabling stakeholders to understand movement patterns, identify hotspots, and make informed decisions for urban planning
- **Air Quality Prediction App** Apr 2021
Python, Streamlit, TensorFlow, Seaborn
 - Utilized OpenWeather API to retrieve **real-time** weather for predictive analysis and developed web app that forecasts PM2.5 levels with a trained **random forest model** that has an accuracy of **67%**
 - Achieved **3rd** best paper rank at the **2023 Saltiga IEEE Conference** by conducting data mining for optimal model selection and presenting compelling findings from **Exploratory Data Analysis**

SKILLS

- **Languages:** Python, Java, JavaScript (ES5/ES6), TypeScript, C/C++, SQL, Scala
- **Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB, Firebase
- **Web Technologies:** Vue.js, React.js, SpringBoot, Node.js, PHP, Flask, HTML/CSS, RESTful APIs, Bootstrap, Tailwind
- **Tools:** Git/GitHub, Postman, Linux/Unix, Jira, AWS, Tableau, OSIsoft PI Systems