Tharun Rajeev

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SKILLS

Languages & Databases:	Java, Python, C#, C++, JavaScript, SQL, NoSQL, MySQL, MongoDB, HTML, CSS
Frameworks & Technologies:	.Net Framework, NodeJS, NextJS, AngularJS, ASP.NET, JUnit, ReactJS, Kafka, .NET CORE, WiseJ.Net, WPF, Window Forms, InstallShield, DevExpress, Postman, Azure.
Software Engineering:	Agile SDLC, Data Structures and Algorithms, Microservices, Containers, Deployment Strategies, System design, Design patterns, OOP, Rest APIs
Cloud, Version Control & DevOps:	AWS, Docker, Docker compose, GitHub, Jenkins,
Machine Learning & Data Analysis:	Pandas, NumPy, Matplotlib, Seaborn, PyTorch, TensorFlow, Keras, Scikit-Learn
Certifications:	[AWS Certified Developer Associate](#), [AWS Certified Solution Architect](#), [AWS Certified Cloud Practitioner](#), [Python for Data Science](#) , [AWS Fundamentals](#), [Python DS](#)

PROFESSIONAL EXPERIENCE

Advanced business and healthcare solutions India Pvt Ltd, Bangalore, India |*Software Engineer*   **Jan 2021– Jul 2023**

- Designed **standalone application** end to end using C# including Authentication and Authorization in WinForms to sync AD users to Advanced business system users using REST APIs currently used by law firm clients in the United Kingdom.
- Optimized Jenkins CI/CD pipeline for a legacy desktop application by eliminating redundant DLL checks and parallelizing build tasks, reducing build time from 31 minutes to 7 minutes.
- Architected, deployed, and scaled backend infrastructure using **AWS services (S3, EC2, CloudWatch, Load Balancer events).** Implemented secure access controls through IAM roles and bucket policies for S3.
- Created Common reusable components for front-end using C# increasing developer efficiency, further moving components to JS Web components using **WiseJ.Net technology** to migrate desktop application to cloud protecting core business logic.

JSW Steel Ltd, Mumbai, India | *Data Analyst Intern*   **Dec 2019 - Dec 2019**

- Performed data mining and web scraping operations using Selenium, automating the extraction and atomization of web pages to streamline manual tasks.
- Leveraged powerful Python libraries including **Pandas**, **NumPy**, **Matplotlib**, **Seaborn**, and **Ipywidgets** to process and analyze trade data from the Ministry of Commerce, categorized by year and month.
- Extracted import and export steel and raw materials data providing insights through dynamic, interactive visualizations.
- Utilized advanced techniques like **MIME type handling**, **SSL**, and **HTTP client protocols** to efficiently request and collect data, automating the storage of results into organized Excel files.

TATA Technologies, Mumbai, India |*Data Analyst Intern*   **June 2019 - June 2019**

- Carried out Data analysis using **pandas, NumPy, and Matplotlib** to analyze operational performance data in Excel to extrapolate and provided insights and graphs for decision-making.
- Analyzed month-wise employment performance based on tickets resolved and incident analysis.
- Stored data in Excel files and graphs in .png files to use them in internal discussions and Retrospectives.

PROJECTS

Machine Learning based sensor systems for water quality monitoring

- Developed a **Water Quality Monitoring System** using **NodeMCU** to interface with **Turbidity Sensor**, **LM35**, and **DS18B20** for real-time data collection and control through actuators like heater/cooler.
- Integrated **Azure Storage Hub** for scalable and cost-effective data storage, with backup strategies for reliability, and used **Azure Stream Analytics** for making the data accessible to external devices.
- Built a web application with **PowerBI** for data visualization and reporting and demonstrated real-time data transmission using **MQTT protocol** and **CloudMQTT** broker to monitor water quality remotely.

Social Cop

- Programmed a cross-functional android application using **Mongo DB, Aws S3 as database, and Node.js for server end.**
- Helped in solving road issues such as faulty signals, jams, puddles, garbage, and accidents by allowing the user to capture images, and location and upload them in a common portal that could be addressed by the respective authorities.
- Created application user interface using Java and **database design in S3** and **Mongo DB** to store posts, images, and responses from higher authorities, sent mails to concerned officials using **SMTP** based on Complaint type.

SalesKrita Landing Page

- Developed a responsive landing page for Saleskrita using **HTML**, **CSS**, and **JavaScript**, integrating **EmailJS** to seamlessly handle service requests directly from the webpage.
- deployed it to the cloud and established a **CI/CD pipeline** to ensure seamless updates and continuous development based on evolving customer requirements. [View Website](#).

EDUCATION

California State University Long Beach   **August 2023 – May 2025**
Master of Science in Computer Science — GPA: 3.88 Long Beach, CA

SRM Institute of Science and Technology   **August 2016 – June 2020**
Bachelor of Engineering in Information Science — GPA: 3.4 Chennai, India