**Jayasurya Rathinagiri**

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Education

**Illinois Institute of Technology** Chicago, IL

Master of Computer Science. GPA: 3.66 May 2024

Experience

**JP Morgan Chase & Co**  Virtual

Data Analyst Intern June 2023 - August 2023

* Provided analytical support by designing and maintaining various BI reports, data models, and analytical tools.
* Generated live data visualizations for 50+ traders using JPMorgan Chase’s open-source library Perspective.
* Resolved repository issues and ensured accurate web application outputs by fixing 20 broken files.
* Conducted data mining and analysis to produce meaningful and timely insights.

**Cloudsense** Chennai, India

Technical Analyst December 2021 - June 2022

* Collaborated with a team of 5 to deliver a Salesforce-based payment portal for Telstra, improving customer satisfaction by 15%.
* Trained teams on Salesforce App Builder and Lightning components, improving efficiency by 25%.
* Documented current and future state business processes and recommended process improvements boosting team productivity by 30%.

**Torry Harris Integrated Solutions** Bangalore, India

Associate Software Engineer June 2021 - December 2021

* Created an employee portal using HTML, CSS, and JavaScript, reducing task completion time by 25%.
* Led 10 peer-to-peer learning sessions in software engineering and SDLC methodologies enhancing team knowledge and overall software development capabilities by 20%.
* Managed application development and systems integration, enhancing efficiency by 40%, ensuring data integrity.

Project Experience

**Tableau Dashboard Development for Airbnb Market Analysis**

* Developed a Tableau dashboard by integrating and cleansing over 23 million data entries from CSV files, repositories, and web scraping. Optimized data joins and standardized datasets for accurate analysis.
* Created interactive visualizations to assess geographic and price trends, highlighting key insights such as the most expensive zip code (98134) with an average price of $206.6.
* Published the dashboard on Tableau Public, enabling Airbnb investors to identify lucrative markets and guide strategic investments, resulting in a 25% increase in investor engagement and a 15% rise in profitable investment decisions.

**In-depth Comparison: MongoDB vs. DynamoDB NoSQL Databases**

* Led analysis optimizing weather data management with CRUD operations, handling over 10,000 documents from the National Oceanic and Atmospheric Administration.
* Gained proficiency in data cleaning and pipeline creation using Python, MongoDB Atlas, and AWS DynamoDB.
* Gained extensive knowledge of MongoDB and DynamoDB functionalities and performance characteristics.

Skills & Interests

Programming Languages: Python, Java, C.

Data Analysis and Visualization: MySQL, Microsoft Excel, Tableau, Power BI, Python (Pandas, NumPy, BeautifulSoup).

Big Data and Distributed Systems: Hadoop (HDFS, YARN, MapReduce, Pig, Hive, Spark), DynamoDB, Cassandra, MongoDB Atlas, Kafka, AWS, GCP, Docker.

Computer Science Fundamentals: Data Structures and Algorithms, Mathematics

Web Development: HTML, CSS, JavaScript.

Key Soft Skills: Strong collaboration, communication, problem-solving, judgment, and critical thinking.