

Ruben Mukherjee

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EXPERIENCE

- **Retail in Motion** Dublin, Ireland
Data Engineer *Jan 2023 - Present*
 - **Technical Work and Contributions:**
 - * Contributed to the development of an advanced analytics platform using Apache Airflow (Python), delivering actionable business insights from structured and unstructured retail data for major airline clients.
 - * Designed and maintained robust data streaming pipelines, facilitating seamless data publishing using AWS DMS into Amazon Redshift and Snowflake via an Amazon S3 data lake infrastructure.
 - * Processed and transformed ingested data into user-friendly formats via the AWS Data Exchange platform, enhancing data accessibility and stakeholder usability.
 - * Investigated and resolved platform issues causing data reconciliation problems in production, ensuring data accuracy and reliability.
 - * Extracted actionable insights from the processed data; empowering both the organization and clients to make informed, data-driven financial decisions.
- **Danalto** Dublin, Ireland
Senior Software Development Engineer(Backend) *Jul 2022 - Dec 2022*
 - **Technical Work and Contributions:**
 - * Designed and developed applications in Flask(Python) and React for tracking high-value indoor assets utilizing GPS technology, delivering real-time location accuracy and reliability.
 - * Optimized IoT data streaming pipelines in Kafka and RabbitMQ to significantly enhance application latency and responsiveness, ensuring seamless user experiences.
 - * Engineered a robust virtualization application in Dash(Python) to visualize critical KPIs from end devices and sensors, enabling data-driven decision-making for stakeholders.
- **Tata Consultancy Services** Mumbai, India
IT Analyst - Data and Engineering (Digital cadre) *Jul 2021 - Nov 2021*
System Engineer (Digital cadre) *Nov 2017 - Jun 2021*
 - **Technical Work and Contributions:**
 - * Developed an analytics application using Flask (Python) and Angular to project KPIs for airplane manufacturing units based on parts consumption, enabling data-driven decision-making.
 - * Built a dynamic application using Angular to execute ad-hoc user-generated queries, enhancing operational flexibility and efficiency.
 - * Designed user behavior tracking to deliver personalized suggestions to enhance user experience and engagement.
 - * Developed APIs using the .NET MVC framework for a centralized application supporting high-volume users in airplane manufacturing, streamlining cross-departmental operations.
 - * Enhanced a supply chain application by implementing features to meet evolving business needs, improving functionality and user satisfaction.
 - * Led business operations initiatives as the primary contact, improving efficiency and aligning processes with organizational goals.

EDUCATION

- **Dublin City University** Dublin, Ireland
M.S. Computer Science - Artificial Intelligence *Aug 2021 - Jun 2022*
- **Cochin University of Science and Technology** Kochi, Kerala, Ireland
Bachelor of Technology- Information Technology *Aug 2013 - April 2017*

SKILLS

- **Languages:** Python, C#, Typescript, SQL
- **Tools:** AWS (DMS, Redshift, Snowflake, S3, DynamoDB, EC2, Lambda, Glue), Atlassian (Bitbucket, Jira, Confluence), Airflow, MongoDB, Kafka, RabbitMQ, Docker, Octopus, Jenkins
- **Frameworks:** Flask, Django, MVC (.NET), Dash, Angular, React
- **Cloud:** AWS, PCF