Abhijeet Uday Karmakar

+1 (403) 667 9829 | abhijeetudaykarmakar@gmail.com | github.com/abhi-jeet589 | linkedin.com/in/abhijeet-uday-karmakar

SUMMARY

Motivated Data Engineer with 2 years of experience in developing and maintaining scalable ETL pipelines from scratch using Python, SQL, and GCP. Expertise in designing, building and running data driven applications. Proven ability to apply data engineering concepts, write high-quality code, and solve complex business challenges. Strong problem-solving skills and a growth mindset to thrive in dynamic environments.

SKILLS

Languages	Python, SQL, Shell Scripting
Technologies	Google Cloud Platform, Tableau, Airflow, Google Cloud Composer, PySpark, Apache Beam, Dataflow, BigQuery, Looker Studio, Google Cloud Scheduler, PubSub, GitHub, Terraform, PostgreSQL, MSSQL
Concepts	Data Transformation, Data Warehousing, OLAP, OLTP, Data Architecture, Data Integration, Data Pipelines, ETL/ELT, Data Analysis, Agile Methodology, Version Control, Testing, IaC, Documentation
Soft Skills	Communication, Problem-solving, Engaging Presentation, Teamwork, Time Management, Adaptability, Continuous Learning, Critical Thinking, Attention to Detail.

EDUCATION

University of Calgary, *M.Eng in Electrical and Computer Engineering* | Calgary, AB   GPA: 3.88 / 4.0   May 2024

CERTIFICATES

System Design, *AlgoExpert*   Feb 2024
Azure Data Fundamentals, *Microsoft*   June 2022

EXPERIENCE

Volunteer, *Untapped Energy* | Calgary, Alberta   June 2024 - Present
- Organizing the high-profile Datathon event in Calgary, demonstrating exceptional teamwork and dedication.
- Developing dynamic Python notebooks and PowerBI dashboards, making complex datasets accessible and user-friendly for event participants.

Graduate Teaching Assistant, *University of Calgary* | Calgary, Alberta   Jan 2024 - April 2024
- Facilitated lab discussions in Practical Data Structures and Algorithms course, encouraging participation and an inclusive learning environment.
- Supported student progress through effective communication and prompt responses.

Data Engineer, *Tata Consultancy Services* | Ahmedabad, India   July 2021 - Dec 2022
- Automated territory assignments with batch data pipelines using Python and SQL, improving efficiency.
- Enhanced sales assignment accuracy by analyzing territory trends.
- Reduced processing time by 70% by converting Apex code for Salesforce CRM into data pipelines on Heroku Cloud.
- Enhanced team productivity by 20% by contributing to design discussions and all lifecycle stages.
- Increased decision-making efficiency by 30% by managing client data challenges.
- Technologies: Python, PostgreSQL, Heroku, Salesforce CRM.

Software Engineer, *Tata Consultancy Services* | Ahmedabad, India   July 2021 - Dec 2022
- Developed and maintained SaaS products using Python, Django, and Celery.
- Improved project efficiency and code quality through Agile practices and peer code reviews.
- Enhanced team productivity by 20% by contributing to design discussions and all lifecycle stages.
- Increased decision-making efficiency by 30% by managing client data challenges.
- Developed and enhanced the Credit Portal SaaS, ensuring security and advanced functionality.
- Resolved 15 production issues, providing timely support for client success.
- Technologies: Python, Django, Celery, SQL, Heroku, Salesforce CRM.

PROJECTS

Personal Shift Manager Web App, *Personal Project*   May 2024 - Present
- Creating a user-friendly platform for seamless clock-in/out and work hour tracking.
- Using ReactJS, NodeJS, Firebase Firestore, and Python FastAPI for secure authentication and real-time updates.
- Aiming to deliver a robust shift management system to reduce administrative overhead and improve scheduling transparency.

Real-Time Stock Market pipeline, *Personal Project* June 2024 - Present

- Designed and implemented a data pipeline with Python and Apache Airflow.
- Developed real-time data ingestion using Google Pub/Sub.
- Processed data with Apache Beam in Google Dataflow for scalable handling.
- Integrated BigQuery for storing processed data, enabling high-speed querying and data analysis.
- Created Tableau dashboards for stock trend visualization.
- Technologies: Python, Apache Airflow, Google Pub/Sub, Google Dataflow, Google BigQuery, Tableau

Uber Eats menu data pipeline May 2024 - May 2024

- Improved data processing speed by 50% with scalable pipelines on Google Cloud Platform for Uber Eats data.
- Utilized Google Cloud Storage, Airflow, and Python for data transformation.
- Increased data accessibility by 40% using Google BigQuery and Looker Studio for dashboards.
- Technologies: Google Cloud Storage, Python, SQL, Airflow, Google BigQuery, Looker Studio.

Analytics Dashboard for Smart Parking System, *Graduate Project* Jan 2024 - April 2024

- Collaborated with a 6-member team to implement a reservation-based parking system.
- Designed batch data pipelines for a user-friendly analytics dashboard.
- Applied data engineering concepts: data modeling, ETL, and warehousing.
- Hosted Django Rest Framework-based REST APIs using AWS cloud services.
- Technologies: Python, MySQL, Django Rest Framework, AWS.

ACHIEVEMENTS

Best graduate project award, *University of Calgary* 2024