

# OJAS SHUKLA

DATA ENGINEER

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## PROFESSIONAL PROFILE

Experienced Data Engineer with 5+ years specializing in architecting data infrastructures, optimizing pipelines, and engineering analytics solutions on cloud platforms. Known for delivering excellent results in fast-paced environments, with demonstrated expertise in Python, GIS, and ETL processes across GCP and AWS, as well as a proven track record of developing end-to-end data solutions to generate strategic business insights. Skilled in automation, data orchestration, and cybersecurity auditing, with a deep understanding of data protection standards and DevOps principles. Currently expanding expertise in AI/ML and advanced DevOps strategies. Exceptional training and academic qualifications, including a Master of Computer science from University of Wollongong.

## CORE COMPETENCIES

- Data Pipeline Optimization
- GIS Data Processing
- Data Warehousing
- Cloud Computing
- Data Engineering
- Database Design
- Containerization
- ETL Processes
- Automation
- Data Lakes
- DevOps
- CI/CD

## WORK EXPERIENCE

ALUMINIUM STEWARDSHIP INITIATIVE (ASI), WOLLONGONG NSW, FEBRUARY 2023 TO PRESENT

### DATA ENGINEER

- Spearhead the architecture of a Google Cloud Platform (GCP) data warehouse, enhancing migration speed, streamlining data map complexity, and contributing to operational efficiency and data accessibility.
  - Utilize advanced Python libraries, including Pydantic, Pandas, DuckDB, and others, to optimize system capabilities.
- Develop advanced Python APIs to improve data retrieval and verification within the EVE project, leveraging GCP tools to ensure data integrity and cleanliness ahead of analytics processing as well as mitigate potential errors in downstream workflows.
- Conduct comprehensive cybersecurity audits and establish robust data protection protocols, ensuring compliance with industry standards.
- Demonstrate expertise in operating JSON, coordinating large datasets in PowerQuery, GIS data and database design, and testing all production system for validation to ensure high-quality results.
- Design and implement optimized data pipelines for the EVE and EducationAL project, achieving efficient data processing to meet the increased demand for high-quality analytics outputs.
- Enhance web performance by incorporating DevOps practices in web and database security, improving cloud processing efficiency and bolstering the reliability of sensitive data handling.
- Drive process automation through Google Cloud's orchestration, scheduling, and CI/CD capabilities, ensuring efficient ETL workflows, data quality, and pipeline dependability across production environments.

UNIVERSITY OF WOLLONGONG/DEMENTIA TRAINING AUSTRALIA (DTA), WOLLONGONG NSW, AUSTRALIA, JUNE 2022 TO JANUARY 2023

### DATA ENGINEER

- Piloted the design and deployment of data lakes and data warehouses using MySQL and Google Cloud Platform to create robust data management systems.
- Built and optimized ETL pipelines to automate data extraction, transformation, and loading processes to ensure consistent data quality and streamlined integration with analytical tools.
- Engineered interactive Tableau dashboards to visualize Australian government data to support research, analysis, and help generate insights for government stakeholders.
- Automated data workflows to significantly reduce manual data handling, increasing team productivity and operational efficiency.
- Established comprehensive data governance and quality control protocols within the data lake and warehouse environments to ensure reliable, accurate data for analytics.

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HERE TECHNOLOGIES, MUMBAI, MAHARASHTRA, FEBRUARY 2019 TO DECEMBER 2021

**DATA SPECIALIST**

- Utilized ETL technologies to enhance global databases, improving data integration, accessibility, and reliability across multiple regions.
- Administered and maintained Hadoop clusters, managed large-scale data storage and processing, and proactively monitored user activities to ensure high performance and data security.
- Developed automation scripts using Python, SQL, and JavaScript, significantly reducing operational bottlenecks and enhancing process efficiency across various data workflows.
- Employed Docker and Kubernetes in development and testing environments, ensuring application scalability and resilience during deployment.
- Oversaw AWS resources (EC2, S3, RDS); fine-tuned storage and computing configurations to support efficient data processing and cost-effective scaling for high-volume data operations.
- Collaborated with cross-functional teams to optimize data storage solutions and/or implement best practices that enhanced system performance.

**EDUCATION**

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MASTER OF COMPUTER SCIENCE, 2022

*University of Wollongong, Wollongong NSW, Australia*

BACHELOR OF COMPUTER SCIENCE, 2017

*Mumbai University, Mumbai, India*

DIPLOMA IN COMPUTER TECHNOLOGY, 2013

*Maharashtra State Board, Mumbai, India*

**AFFILIATIONS**

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- Organized the State-Level Robowars Competition (LTCoe, 2016 to 2017), handling logistics, participant management, and technical setups to ensure a successful and engaging event for attendees and participants.
- Core Committee Member at Tech-Zephyr (2015 to 2017) tasked with overseeing the planning and execution of multiple technical events at LTCoe.
- Facilitated the inaugural Wireless Robotics Workshop at Tech Zephyr (2014 to 2015)

**VOLUNTEERISM**

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- Community Development Volunteer, Rashtrajyot (NGO): Contributed to various community development initiatives focused on education, healthcare, and sustainable development projects.

**ADDITIONAL INFORMATION**

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**Languages:** English, Hindi, and Marathi

**Technical Proficiencies:**

- **Programming Languages:** Python, JavaScript
- **Cloud and Database Management:** GCP, AWS, SQL, T-SQL
- **Data Analysis & Visualization:** Tableau, PowerBI

**Interests:** Literature (fiction, poetry), competitive gaming matches (DOTA2, strategy games), badminton (doubles, recreational), swimming (freestyle, endurance).