

## Ankita Pandit

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### Professional Summary

Flexible Data and Software Engineer with experience across finance, consulting, healthcare and aerospace domains; specializing in full stack development, data migration and automation. Built end-to-end throughput improvement tools, versatile ETL pipelines while contributing to large-scale system modernization initiatives. During my current time off work, expanding expertise in AI by building personal tech projects. Now seeking a role that advances growth in AI while leveraging prior strengths in backend systems, data engineering and scalable application development.

### Work Experience

#### Cognizant Technology Solutions, Data Engineer

2020 – 2024 | College Station, TX

- Collaborated with cross-functional teams and client stakeholders while leading a small team to deliver high-impact solutions for Apple (client), increasing deliverables throughput by 55% within a year.
- Developed a full stack application to assess impact on application stakeholders and BUs; and efforts required to transition from legacy systems to modern cloud warehouse; integrated dynamic visualizations to highlight the impact, scope of changes and BU-level dependencies. This solution decomposed a complex migration problem to actionable work items, reducing manual effort by 70% across multiple BUs, rationalizing the planning and the development phase for their critical systems.
- Spearheaded a robust ETL pipeline using agile methodology for multi-sourced data ingestion (from Kafka, Oracle DB, Hadoop) and orchestration, supporting data flow for domain-critical applications including bug fixes and data corrections. Ensured high availability and data accuracy; contributing to better performance, reliability and accelerated downstream analytics.
- Contributed in fine-tuning GDPR compliance tool within domain applications ensuring alignment with data privacy regulations and improving compliance compatibility, reducing legal compliance flags by 9%.
- Developed tool for data comparison across systems, generating summaries of discrepancies on latest real-time data. This increased team productivity by 80%, avoiding manual workload and consistency in reports and 10% cost reduction, minimizing redundant database queries.
- Developed tool for automating DDL script migration, intuitively identifying object type and converting from Teradata to Snowflake, increasing DDL objects migration yields by almost 3.5x the manual load.
- Designed application for data migration from RDBMS to cloud warehouse by streamlining key tasks such as object dependency resolution, user request validation, DR snapshot provisioning, DR health monitoring, adaptive data pipeline orchestration, data quality assurance and snapshot pruning using Python, reducing manual workload by 65% and increasing throughput and data integrity.

#### Cerner Corporation (now Oracle Health), Software Engineer

2020 – 2020 | Kansas City, MO

- Implemented web application using React.js and Ruby on Rails for a virtual campus tour, enabling new hires to navigate campuses with ease.

#### Honeywell Technology Solutions Lab), Software Engineer

2017 – 2018 | Bangalore, India

- Developed APIs in C++ for flight maintenance and connectivity, incorporating CI/CD pipeline build for latest aircraft applications using Bash.
- Configured and deployed RADIUS server for AAA validation, improving system reliability, security and access control.
- Earned a Lean Six Sigma Green Belt Certification for automating Google framework setup in C++ which intuitively generated test file structures and base code for testing, this resulted in annual cost savings of USD 30,000.

#### KPMG Global Services, Technical Intern

2017 – 2017 | Bangalore, India

- Engineered a comprehensive P&L tool and timesheet application using MS VBA which streamlined financial reporting and eliminated the need for outsourced or licensed software, driving significant cost savings for the team.

### Education

Feb 2020 University at Buffalo (SUNY) – M.Sc. in Computer Science and Engineering

Buffalo, NY

May 2017 Manipal Institute of Technology – B.Tech. in Computer and Communication Engineering

Manipal, India

### Projects

- **Food Recommendation** – Python-based application using LLM to provide food items recommendation based on location and preferences. [Python, Streamlit, OpenAI LangChain, ChromaDB, RESTful API]
- **Data Digest** - Python-based application for text extraction and summarization on election violence. [Python, Flask, Frontend, Solr, RESTful API]
- **Tweet Analyzer** - Python-based application for searching and data analysis tool like sentiment analysis, distribution graphs, word cloud, trending hashtags. [Python, Flask, Frontend, AWS, Solr, RESTful API]
- **MyWaypoints** - Designed distributed systems using basic web application displaying weather and waypoints along the route selection. [Python, Flask, RESTful API, Frontend]

### Technical Skills

- **Programming Languages:** Python, Java, C++, PHP, SQL, Bash, Ruby, JavaScript
- **Web Development:** JSON, HTML, CSS, Flask, React.js, jQuery, REST API
- **Database, Cloud, Big Data & IoT:** Snowflake, Teradata, AWS, MySQL, Hadoop, MongoDB, SQLite, Spark, Scala, Firebase, Libellium Waspmote Sensors, Raspberry Pi, IBM Cloudmix
- **Security & Encryption:** OAuth, OpenSSL, RADIUS, Kali Linux
- **Testing Frameworks:** Jest, Enzyme React, RSpec, Junit, Selenium, CppUnit, Google Test
- **Tools & Software:** Apache Airflow, Tableau, Solr, Jupyter, Lighttpd, Tomcat, WAMP, Docker, Git, Jenkins, Splunk, R
- **Soft Skills:** Collaboration, Leadership, Teamwork, Problem-solving, Organization, Initiative, Adaptability
- **Engineering Skills:** Frontend, Full stack, Backend, CI/CD, Software Engineering, DevOps, DataOps, Data Analysis, Data Warehouse, ETL Pipeline, Big Data, Data Engineering, Agile, Automation, E2E, SDLC, LINUX, UNIX