Ankita Pandit

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Work Experience

Cognizant Technology Solutions   **College Station, TX**

Data Engineer   Dec 2020 – Jul 2024

- Collaborated with cross-functional teams and client stakeholders to deliver high-impact solutions for Apple (client), resulting 55% throughput increase within a year.
- Developed a full stack impact analysis application to assess transition from legacy systems to modern cloud data warehouse on application stakeholders and BUs; integrated dynamic visualizations to highlight impact to customers, 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 streamlining the decision-making process for their critical systems.
- Spearheaded a robust ETL pipeline using agile methodology for multi-sourced data (from Hadoop, Oracle DB, Kafka) and supporting end-to-end data flow for domain-critical applications including iterative bug fixes, data corrections and code update. Ensured high availability and accuracy of data, contributing to better application performance, improved data reliability and accelerated downstream analytics.
- Contributed to fine-tuning GDPR compliance tool within the domain applications ensuring alignment with data privacy regulations, and improving application compliance check, resulting in 9% reduction in legal compliance flags.
- Automated data comparison across multiple systems, generating summaries of discrepancies on sample of real-time data. This increased team productivity by 80%, avoiding manual workload and consistency in reports and 10% cost reduction, minimizing redundant database queries.
- Automated data migration from RDBMS to cloud warehouse by streamlining key tasks such as object dependency resolution, user request validation, DR snapshot creation, system monitoring for DR availability, dynamic adoption of data transfer method, post-transfer data quality checks and snapshot cleanup using Python scripts, resulting in a 65% reduction in manual workload for the team and improving migration throughput and data integrity.

Cerner Corporation (now Oracle Health)   **Kansas City, MO**

Software Engineer   Mar 2020 - Jun 2020

- 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   **Bangalore, India**

Software Engineer   Jul 2017 - Jul 2018

- 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   **Bangalore, India**

Technical Intern   Jan 2017 - May 2017

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

Education

University at Buffalo – State University of New York   **Buffalo, NY**

Master of Science in Computer Science and Engineering   Aug 2018 – Feb 2020

Manipal Institute of Technology   **Manipal, India**

Bachelor of Technology in Computer and Communication Engineering   Aug 2013 - May 2017

Projects

- **Data Digest** - Python-based application for text extraction and summarization on election violence. [Python, Flask, Frontend stack, Apache Solr, Google Maps API, NYT API, Twitter API]
- **Tweet Analyzer** - Python-based application for searching and data analysis tool like sentiment analysis, distribution graphs, word cloud, trending hashtags. [Python, Flask, Frontend stack, AWS, Apache Solr, Twitter API]
- **MyWaypoints** - Designed distributed systems using basic web application displaying weather and waypoints along the route selection. [Python, Flask, Google Maps API, OpenWeather API, Frontend stack]

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**: Snowflake, Teradata, AWS, MySQL, Hadoop, Cloudera, MongoDB, SQLite, Spark, Scala
- **Security & Encryption**: OAuth, OpenSSL, RADIUS, Linux
- **Tools & Software**: Apache Airflow, Tableau, Solr, Jupyter, Lighttpd, Tomcat, WAMP, Docker, Git, Jenkins
- **Soft Skills**: Collaboration, Leadership, Teamwork, Problem-solving, Organization, Initiative, Adaptability
- **Engineering Skills:** Frontend, Full stack, Backend, CI/CD, Software Engineering, DevOps, Data Analysis, Data Warehouse, ETL Pipeline, Big Data, Data Engineering, Agile, Automation, E2E, SDLC