

SHUBHAM PRASAD PEDNEKAR

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PROFESSIONAL EXPERIENCE

IT Software Engineer, Senior | Health Plan of San Joaquin (Contract)

Nov 2024 - Present

- Engineered **ETL** data pipelines and **EDI** workflows using **Python** and **SQL** in **Azure Databricks (DBX)**.
- Maintained **SQL** and **Python Notebooks** to streamline data exchange for critical healthcare operations like claim letter adjudication, defining risk groups, and member management, adhering to data governance SOPs.
- Developed and optimized **Data Models** in **DBX**, building and modifying **Modeled Tables**, deploying **Deltashare Tables**, and integrating data sources with **Azure Cosmo DB** to support analytics and reporting teams.
- Integrated **Azure Communication Services (ACS)** and **MS Teams API** for real-time ETL job status alerts, enabling quick response and **Azure DevOps Analytics** dashboard for pipeline performance insights.
- Created Business Reports using **SAP Crystal Reports** and **SAP Analytics Cloud** and implemented distribution workflows via **ACS** and **SFTP** in various formats (CSV, PDF), and enhanced the reporting framework.
- Documented architecture, compliance workflows, and auditing with Confluence and MS Word.

Software Engineer - Data | Gainwell Tech. (Contract)

Jul 2024 - Nov 2024

- Optimized **ETL pipelines** for generating Healthcare AFS files using **SQL** and **Python** to extract and transform data from **PostgreSQL DB** sources into **Databricks (DBX) data lakes** for analytics and NCAA compliance.
- Performed data modeling in **Databricks**, including building and modifying modeled tables and **Delta Share** tables to support scalable data integration and member, provider analytics.
- Leveraged **Python notebooks** in **Databricks** and libraries such as **Pandas**, **NumPy**, and **SQLAlchemy** and **SQL** to migrate and enhance time-series data analysis pipelines for event logs.
- Utilized **Lakeflow jobs** to schedule and automate execution of **ETL** processes, creating business reports via **SAP Crystal Reports** to streamline data processing and report generation for informed decision-making.

Software Engineer | Buffalo Niagara Medical Campus

Aug 2023 - Jul 2024

- Developed machine learning models using **Python (scikit-learn, TensorFlow, Keras)** and **XGBoost** to predict measles outbreaks, integrating data from the JHU IVAC US Measles Tracker.
- Designed and implemented robust, optimized **ETL pipelines** with **Databricks (DBX)**, ensuring data quality, availability, governance, and performance.
- Generated comprehensive reports with **SQL** and **SAP Analytics Cloud**, offering key insights and visualizations of measles outbreak patterns and model performance to guide WNY public health strategies.

Software Developer Intern | GeekWork

Jun 2021 – Nov 2021

- Established Real-Time, Event-Driven Backend for NIDO Workz ERP Platform via **Postgres SQL Database** to observe status of factory automation robots and sensors running **Python** microservers.
- Designed **RESTful API** endpoints for real-time and on-demand data retrieval, integrating with **jQuery** to dynamically update user interfaces created in **Bootstrap CSS** and **HTML5**.

EDUCATION

M.S. in Computer Science | The State University of New York at Buffalo

Jan 2022 - Jun 2023

B.E. in Computer Engineering | University of Mumbai

Aug 2017 - Jun 2021

TECHNICAL SKILLS

ETL, Data Pipelines, EDI, Workflows, Python, SQL, Azure Databricks, DBX, SQL, Jupyter, SOP, Data Modeling, Modeled Tables, Deltashare, Cosmo DB, Analytics, Communication Services, ACS, DevOps, ADO, SAP Crystal Reports, SAP Analytics Cloud, CSV, Compliance, Confluence, MS Word, PostgreSQL DB, Data Lakes, Pandas, NumPy, SQLAlchemy, Alembic, Django, FastAPI, Time-Series, Lakeflow Jobs, Scikit-Learn, TensorFlow, Keras, XGBoost, RESTful, API Endpoints, jQuery, User Interfaces, Bootstrap CSS, HTML5