SAGUN SHRESTHA

PROFESSIONAL SUMMARY

- **Data engineer** with a strong foundation in data warehousing, ETL processes, and data architecture. Experienced in designing and maintaining high-performance data warehouses using **Amazon Redshift** and **Google BigQuery**, ensuring data integrity, security, and accessibility across multiple environments.
- **Hands-on experience with Docker**, leveraging containerization and orchestration to streamline deployment, improve scalability, and manage data processing environments efficiently.
- Proficient in SQL(PostgresQL, MySQL), NoSQL(MongoDb, Cassandra, Firebase), Power BI, and Tableau, with expertise in building scalable ETL pipelines using **Apache Kafka**, **Apache Spark** in cloud platforms to process and integrate large datasets from multiple sources.
- Skilled in optimizing database performance by identifying bottlenecks and implementing solutions to enhance query and data load efficiency.
- **Full Stack Development experience** with JavaScript (TypeScript, ES6), React.js (Redux, Context API), Node.js, Express.js, and front-end frameworks (CSS, SASS, Bootstrap, Tailwind, HTML5), Flask/Django.
- Experienced in designing and developing Single Page Web Application (SPA) using TypeScript, JavaScript ES6, Async mechanics, React Js workflows such as Redux, Context API and Express Js, and Node Js and NPM packages with Technologies/scripting language such as CSS, SASS, Bootstrap, Tailwind and semantic HTML5 with clear understanding of CSS principles to create scalable and maintainable cross browser code. Test driven development with unit tests, scalability and extensibility of applications and Agile methodologies
- Excellent interpersonal abilities, communication skills, time management and Team skills with an intention to work hard to attain project deadlines under stressful and fast paced environments

PROFESSIONAL EXPERIENCE

Elevate Advisory   **Draper, Utah**
Data Engineer   **November 2023 - Present**

- **Designed and maintained automated ETL pipelines:** Developed and optimized data ingestion processes using Python, SQL, and orchestration tools (e.g., Apache Airflow) to integrate client financial data from multiple sources into Adepar.
- **Integrated diverse data sources:** Configured APIs, connectors, and data feeds to ensure seamless data flow from external systems into the portfolio management environment
- **Enhanced data quality and consistency:** Implemented data cleaning, normalization, and transformation routines to prepare raw data for accurate analysis and decision-making.
- **Monitored and troubleshooted data workflows:** Regularly reviewed pipeline logs, identified issues, and collaborated with senior engineers to troubleshoot and resolve data discrepancies.
- **Ensured compliance and data security:** Applied robust data validation checks, access controls, and encryption protocols to protect sensitive client information in line with industry standards (e.g., GDPR, PCI-DSS).
- **Collaborated with cross-functional teams:** Worked closely with senior data engineers, data architects, and portfolio management consultants to understand business requirements and translate them into technical solutions.
- **Maintained thorough documentation:** Documented ETL processes, system configurations, and code to support team knowledge sharing and streamline onboarding.
- **Streamlined workflow automation:** Implemented scheduled jobs and automation scripts to minimize manual intervention and improve the reliability of data pipelines.

APCT INC   **Los Angeles, CA**
Full Stack Python Developer   **November 2021 – November 2023**

- **Database Management**: Oversaw database management and data storage solutions, utilizing **Google BigQuery** and **PostgreSQL** for scalable data operations. Integrated SQLAlchemy ORM into Flask applications for streamlined data handling and complex query execution.
- **Scripting & Automation**: Led the transition from C-shell scripts to Python, increasing manufacturing efficiency by 25% through automated data processing using pandas and Spark

- **GUI Development**: Developed PyQt5 desktop GUIs and React-based web interfaces for internal data visualization and monitoring, providing real-time data access to operators and engineers.
- **API Development**: Created RESTful APIs using FastAPI for real-time data retrieval and updates, enabling agile and responsive data handling within production environments.
- **Data Warehouse Architecture**: Designed and maintained a high-performance data warehouse using **Google BigQuery**, ensuring data integrity, security, and accessibility across environments.
- **ETL Pipeline Development**: Engineered ETL pipelines with Python, Airflow, PySpark, AWS S3, and PostgreSQL boosting reporting efficiency by 30%.
- **Data Integration and Reporting**: Developed a SQL-based pricing optimization system on PostgreSQL implemented reporting dashboards in Tableau to provide actionable insights for stakeholders. Also Created Dashboard with Plotly Dash.

Hack for LA   **Los Angeles, CA**
Full Stack Developer   **January 2020 – Present**

- Built dynamic React components and state management with Redux/Context, leveraging **Docker** for containerized development environments,and collaborated on high-impact projects
- Designed RESTful APIs and implemented routing using React Router, ensuring streamlined navigation and optimized user experiences.

Google Inc   **Mountain View, CA**
QA   **February 2012 – February 2014**

- Led a team of 8 to achieve daily quotas on books documentation on https://books.google.com/
- Manufactured using (OCR) optical character recognition stored in a digital database
- Launched quality checks (more than million) titles using ReCAPTCHA

EDUCATION

Eastern University   **St. Davids, PA**
Masters Degree: Data Science   **October 2023 – March 2025**

General Assembly   **New York, NY**
Full Stack Software Engineering   **September 2021 – January 2022**

California State University   **Northridge, CA**
Bachelor's Degree: Manufacturing Systems Engineering   **February 2013 – December 2017**

Personal Projects
IoT Streaming - Real Time Streaming with Kafka, Apache Spark, AWS(S3, Glue, RedShift) containerized in Docker.
Slot Machine - Game application, JavaScript control flow with sequence, branching and looping. Html, Sass, Animate CSS, JavaScript
Backlog - MERN stack App with React hooks. Restful, API and Cloud, Google auth with mongoose atlas and Node.
Bike Trail Reviews - Full Stack MERN, Used MULTER with CLOUDINARY to upload images and files with API calls and promises. Deployed with Heroku
Airbnb for Cars - Full Stack Python Django App Python, PostgreSQL, AWS
SOFTWARE

- Operating Systems Windows, XP, Mac OS, Linux Tools: Teamwork, Server Studio, Google Suite, Zoom, Slack, Solid works, AutoCAD, Adobe Photoshop, Lightroom
LANGUAGE

- Front End- JavaScript ES6, TypeScript, React Js, Custom Hooks, Redux/Context API, Html5, CSS, SCSS, Sass, EJS, JSX, Bootstrap, Tailwind, BULMA, Material UI
- Back End- Python,Flask, Django, Node Js, Express JS, MongoDB, PostgreSQL, Fire Store, Google AUTH Cloud, Heroku, Docker, Web-Pack, VS Studio, Microsoft Azure