Qianyi Sha in ⊕

Data Engineer / Solution Architect / Software Engineer
shhh9712@gmail.com (949)-383-0343 Seattle, WA

Profile Summary

- Specializes in data engineering and full-stack development, leveraging advanced cloud based platforms like **Snowflake**, **Databricks**, and **BigQuery** to build and optimize scalable data pipelines. Also Demonstrates strong proficiency in **CI/CD processes**, Python, SQL, **PySpark** focusing on custom data software solutions to enhance operational efficiency. Have great knowledge on data modeling, **ETL/ELT** practices, data pipelining and automation.
- Full-stack developer with a strong command of programming languages including **Python**, SQL, C/C++, **Java**, and **JavaScript**. Proficient in designing UIs with **React** and **Nextjs**, writing server-side code and building **APIs**, and manipulating SQL & NoSQL **databases**. Solid understanding of Authentication, Security, and version control.
- Proven leadership in project management and technical tool development, effectively leading cross-functional teams to improve software quality and data processing efficiency.
- Rapidly adapts to new technologies and complex problem-solving scenarios, with a keen ability to innovate and apply practical solutions.
- Fluent in English and Chinese, effectively collaborating in multicultural environments and excelling in diverse, international work settings.

Education

University of Washington, Seattle ⧉

M. Sc. in Electrical & Computer Engineering
Seattle, WA, 2021-2023   **GPA: 3.87/4.0**

University of California, Irvine ⧉

B. Sc. in Computer Science & Engineering
Irvine, CA, 2016-2020
3 appearances on Dean's honor list

Languages

English: Fluent   **Chinese**: Native level

Technical skills

Languages: Python, SQL, C/C++, Java, JavaScript / HTML, CSS, Docker
Data platform/Tools: Snowflake, Databricks, Bigquery, DBT, Azure, AWS, GCP, Postgres, PySpark, Pandas, Redshift, Hadoop, Iceberg, MongoDB, Hive, R, Scala, Go, Airflow, Fivetran, Informatica.
Frameworks & Libraries: React.js, Django, Scikit-Learn, PyTorch, Git, Kubernetes, Tableau, Power BI, Looker.

Professional Experience

Ascend.io ⧉ Field Data Engineer / Solution Architect   **Menlo Park, CA** Oct. 2022 - Feb. 2024

- **Advanced Data Pipeline Architecture**: Led the creation and optimization of scalable data pipelines across Snowflake, Databricks, and BigQuery using SQL, PySpark, and Python. Enhanced data processing efficiency and scalability to support complex business needs.
- **Solution Architecture and Customer Success**: Directed solution architecture, aligning with client needs and platform strengths, and developed comprehensive customer success strategies to ensure smooth onboarding, product adoption, and cost optimization.
- **Innovation and Custom Software Solutions**: Innovative new products and features at Ascend Engineering and developed tailored software solutions, including CI/CD, unit testing, and deployment controllers, improving operational efficiency and quality.
- **Project Leadership in Tool Development**: Managed the development of Python-based migration tools, incorporating advanced technologies for seamless platform transitions and enhanced functionality.
- **CI/CD Process Efficiency**: Implemented efficient CI/CD workflows for data pipeline deployment using config languages like YAML or JSON, focusing on automation and smooth deployment processes.

Youyuan ⧉ Software and Data Engineer Intern   **Beijing, China** Jan. 2021 - June. 2021

- **Data Pipeline Optimization**: Enhanced main platform's data processing speed of 100k+ daily records and increased subscription rates by 10%+ using ML models (Decision Trees, Logistic Regression) for user interest analysis.
- **Cross-Team Collaboration Leadership**: Led stakeholder engagement and cross-functional team collaborations, streamlining project execution and removing roadblocks for improved efficiency.
- **Technical Proficiency in Data Solutions**: Utilized Python, SQL, Jupyter, and Scikit-learn for solution development, leveraging senior engineer mentorship for best practices adoption in software and data engineering.

Project Experience

Development of E-Commerce website ⧉   Apr. 2022 - Present

- As a personal project, I developed a full-stack E-Commerce website, leveraging React with React Bootstrap as a front-end framework with Redux, and built the back-end with Python, Django, and RESTful API. Uses SQLite as a database. Enabled payments by integrating the Paypal API and utilized Git for project management.

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