

### 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.

### 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 which process 100M+ rows of record per day across Snowflake, Databricks, and BigQuery using SQL, PySpark, and Python. Customized internal tool that dynamically controls the structure and deployment of such data pipelines. Enhanced data processing efficiency and scalability to support complex business needs.
- **Platform Development and Maintenance:** Engage in the entire product development cycle, contributing to various data connector frameworks. Possess extensive experience in ensuring platform stability by troubleshooting production issues using monitoring tools such as Kubernetes, OpenTelemetry, and Grafana. Identify and resolve problems within our tech stack that includes React, gRPC, Go, among others.
- **CI/CD Process Efficiency:** Implemented efficient CI/CD workflows for data pipeline deployment using CircleCI and Python, focusing on deployment and testing automation.
- **Project Leadership in Tool Development:** Managed the development of Python-based migration tools, incorporating Google Protobuf and REST API for seamless transitions between data platforms.
- **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.

**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.