

Seth Saperstein

Software Engineer

Contact

Address
San Francisco, CA, 94103

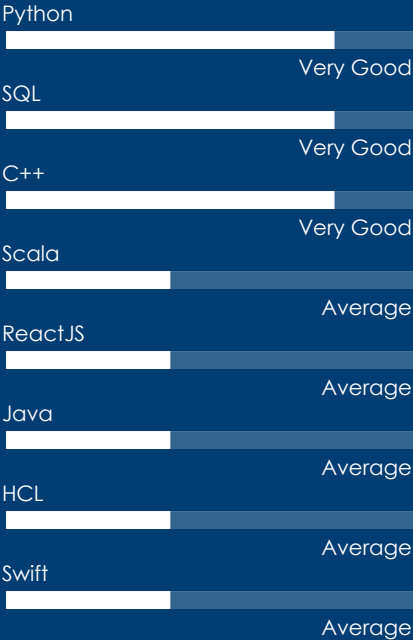
Phone
(248) 310-2020

E-mail
sethsaper@gmail.com

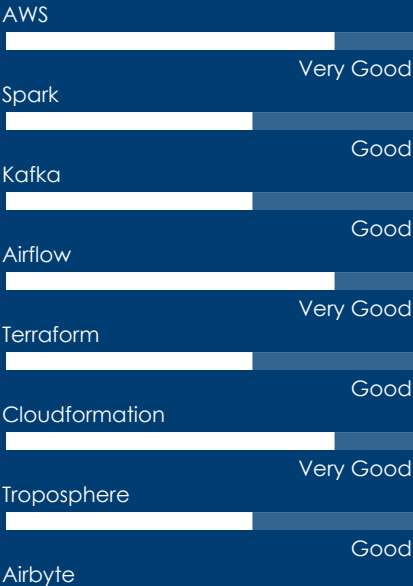
WWW
www.sethsaperstein.com

LinkedIn
www.linkedin.com/in/seth-saperstein

Skills



Software



Forward-thinking software engineer with background working productively in dynamic environments. Fluent in Python and C++ programming languages used to develop software within real estate, ad tech, and education. Proud team player focused on achieving project objectives with speed and accuracy.

Work History

2020-01 - Current

Big Data Engineer

Rocket Homes, Detroit, MI

- Architected and implemented multiple data pipelines, a data platform, and a data lake on AWS to normalize, centralize and democratize 200+ real estate related source systems as well as serve a site of 1M+ users.
- Founded Rocket Homes Data University to encourage technical skill development, providing structure, relevant certifications, and training material to get a team of 10+ engineers AWS Solution Architect certified by Jan 2021.
- Optimized data engineering and data analyst processes saving 4500+ engineering hours in the next year through automation via configuring Airflow and authoring a series of DAGs.

2019-05 - 2019-08

Data Science Fellow

University Of Michigan, Ann Arbor, MI

- Created a feature for a university-led exam preparation platform to give a user their percent competency in a course or subject based on a series of questions using item-response theory and computer adaptive testing models.

2018-06 - 2018-08

Data Science Intern

X-MODE SOCIAL, Reston, VA

- Improved accuracy of a reverse geocoding visitation algorithm on mobile user location data by 30% through iOS SDK modifications for data enhancement, conducting field tests for labeled data, and feature engineering via Pandas.
- Automated location data cleansing processes that led to a reduction of 2000 hours per year of analyst time.
- Created a backtesting system to validate returns of stock trading strategies using models powered by location data.

Education

2016 - 2019

Bachelor of Science: Data Science, Economics, and Mathematics of Finance And Risk Management

University of Michigan - Ann Arbor - Ann Arbor, MI
GPA: 3.5

Projects

Real-Time Sports Betting Exchange System & Web App

Implemented a sports betting exchange ReactJS site and cloud system allowing for P2P bets in real-time, leveraging serverless AWS architecture (API Gateway, Kinesis, Lambda, S3, Athena, Glue, Redis, ECS, Elasticsearch, RDS) to execute, store, and process orders.

Location Based Ad-Tech Data Pipeline, SDK, & Web App

Implemented a location collection SDK for iOS in Swift with serverless AWS architecture (API Gateway, Kinesis, Lambda, S3, Athena, and Glue) to ingest, process, store, and query mass amounts of streaming data from iOS devices, visualized in a ReactJS admin dashboard web-application.

Certifications

AWS Certified Solutions Architect – Associate

AWS Certified Data Analytics - Specialty

Leadership



Michigan Data Science Team – VP of Communications

- Manage internal and external communications for 500+ members.
- Hosted the first ever university data hackathon, MDataHack, consisting of 100+ people and 25+ teams.