

Fred Hope – Senior Software Engineer
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www.fredhope.com

PROFESSIONAL EXPERIENCE

Opendoor

March 2017 – Present

Software Engineer

- owned DWH ETL (k8s, BigQuery, S3/GCS), including sync of internal databases and transformations on data
- built custom ETLs into DWH for additional data sources
- implemented robust method for partial deletion of unused S3 data, saving \$10k/mo
- set up monitoring, tracking, and alerting for data freshness

Zenefits

April 2015 – March 2017

Senior Software Engineer, Data (January 2016 – March 2017)

- implemented and maintained in-house and third-party ETL tools to sync data into our data warehouse (Amazon Redshift)
- developed systems to monitor data quality and integrity
- wrote scripts (SQL, Python) to transform data and produce useful datasets
- built low-latency pipeline to process streaming event data
- researched and implemented strategies for scaling our data pipeline infrastructure both vertically and horizontally
- won company award: Making Zenefits a Great Place to Work

Data Analyst (April 2015 – January 2016)

- wrote queries and analyzed results to provide impactful analysis
- owned high level reporting pipelines and analysis for management team
- provided hands-on SQL training for members of other orgs
- partnered with Product Operations to build model identifying clients at risk of churn

SB Math Tutors

January 2012 – April 2015

Founder & President

- provided private tutoring of K-12 and college-level math students
- hired and managed additional tutors
- 2014 net profit: \$39k

Silvergreens Restaurants & Catering

November 2007 – February 2015

IT Supervisor / Co-General Manager

- set up on-site and web-based point of sale software and other computer systems
- analyzed sales, labor, and cost of goods reports to strategize with rest of management team on marketing & operations

RELEVANT SKILLS

- Python, R, SQL, Spark, Airflow, AWS (Redshift, S3, Kinesis, etc.), GCP, k8s, command line
- fluent in Spanish

RELEVANT SIDE PROJECTS

- ported text & graphics adventure games from FutureBASIC to Objective C w/ Cocoa for Mac OS X (www.fredhope.com/games)
- wrote Bash and R scripts to parse and create searchable dataset of chat logs from Apple's Messages.app for Mac OS X (www.fredhope.com/messagescorpus)
- designed interface (HTML/CSS/JavaScript) and programmed backend (PHP/MySQL) for calculating and storing my dietary nutritional information (www.fredhope.com/macros.html)

EDUCATION

University of California, Santa Barbara

Fall 2006 - June 2010; overall GPA: 3.51
B.S. in Mathematics
Regents Scholar