

Fred Hope – Senior Software Engineer
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www.fredhope.com

PROFESSIONAL EXPERIENCE

Zenefits

April 2015 - Present

Senior Software Engineer, Data (January 2016 - Present)

- implement and maintain in-house and third-party ETL tools to sync data into our data warehouse (Amazon Redshift)
- develop systems to monitor data quality and integrity
- write scripts (SQL, Python) to transform data and produce useful datasets for other members of the team and other internal orgs
- research and implement strategies for scaling our data pipeline infrastructure both vertically and horizontally
- sync data from data warehouse to BI tools

Data Analyst (April 2015 - January 2016)

- write queries and analyze results to provide impactful analysis
- create and reproduce reports on key operational metrics
- collaborate with and provide insight for other teams & departments

SB Math Tutors

January 2012 - April 2015

Founder & President

- private tutoring of K-12 and college-level math students
- hiring and managing of additional tutors
- tracking of revenue and expenses by month and year
- 2014 net profit: \$39k

Silvergrees Restaurants & Catering

November 2007 - February 2015

IT Supervisor (June 2011 - February 2015)

- setup of on-site and web-based point of sale software and other computer systems
- calculation of nutritional information for hundreds of recipes/menu items

Co-General Manager (December 2008 - June 2011)

- hiring, training, and scheduling of employees
- analyzing sales, labor, and cost of goods reports to collaborate with rest of management team on marketing & operations

RELEVANT SKILLS

- Python, R, SQL, Spark, Scala, AWS (Redshift, S3, Kinesis, etc.), OOP, HTML, 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 database 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

Johns Hopkins University, through Coursera

Fall 2014 - Spring 2015
Specialization Certificate in Data Science

University of California, Santa Barbara

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