

David Steinberg

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Work Experience

SWE II at Google (Maps data quality) (April 2016-August 2019)

- Developed improved pipeline to process user reports on incorrect one-way road data, doubling efficiency
- Analyzed and researched potential improvements for road surface data quality (and processes for adding new data); reduced resources required to add data by 90%
- Built and maintained pipeline to provide analytics teams with road data tables
- Added new navigation landmark data, and coordinated across teams to update the schema used to store it

Software Engineer at Skai (July 2013-June 2015)

- Skai's product was a data integration and analytics platform
- Developed and optimized platform-specific streaming data input tools using Flume and Spark
- Built customer-facing data manipulation and analysis API powered by Spark
- Extensive analytics work using Skai, SQL, Hadoop, and Mathematica, including primary responsibility for proof-of-concept analysis which convinced a client to choose our platform over a direct competitor
- Optimized platform storage and performance using both the JProfiler tool and algorithms research, leading to ~2.5x compression efficiency improvement and ~3x faster queries among other results

Intern at Jorgensen Research Group (May 2011-May 2013, Yale Department of Chemistry)

- Used Pybel (chemical informatics module for Python) to design drug database curation and search tools

Skills

- Programming languages: Python, Java, SQL
- Libraries, tools, source control, etc: Spark, Hadoop, Flume, MySQL, Jprofiler, Git

Education

Yale University, New Haven, CT (Class of 2013)

- Majors: Chemistry (Intensive B.S.) and Mathematics & Philosophy (B.A.)

Udacity and Coursera online courses (June 2012-June 2014)

- Completed 17 courses including Machine Learning, Algorithms I-II, Functional Programming, Introduction to Data Science, Introduction to Finance, Mathematical Biostatistics I-II, Bioinformatics Algorithms

Competitive Gaming

Magic: The Gathering (Winter 2018-Spring 2021)

- Top 8 at 2020 Mythic Invitational
- One of 32 players invited to 2020 season championship event (the Grand Finals)

Hearthstone (Fall 2014 – Fall 2018, full-time July 2015-April 2016)

- Multiple top finishes at major international tournaments, including winning Dreamhack Austin 2017
- Developed software to analyze Hearthstone metagame and predict successful strategies; my algorithm was later used by top American Hearthstone teams (such as Tempo Storm) for tournament preparation
- Was a salaried player on team Vicious Syndicate while full-time

Competitive Chess (Fall 2009-Fall 2013)

- Achieved the rank of USCF Expert (top 5% of tournament players)
- President of Yale College Chess Club from 2011-2013