Hugh Wimberly

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RELEVANT EXPERIENCE

Headspsace Health

Senior Data Engineer   11/2020–6/2022

- Supported the infrastructure and data needs for a team of 6 ML engineers and 2 data analysts
- Built maintainable machine learning pipelines orchestrated with AWS CDK
- Designed HIPPA-compliant de-identification schemes to satisfy cross-functional analytics needs
- Created an efficient and secure n-gram aggregator for detailed trend analysis

Toptal *(data engineering consultant)*

Client: *fortune 500 insurance company*   2/2020–5/2020

- Advised on transition from on-prem to cloud (AWS) hosted data and services
- Simplified and streamlined transition plan, reducing third-party dependencies
- Designed kafka-based interop between extant mainframes and new elastic ECS services

Client: *fortune 100 healthcare company*   9/2019–1/2020

- Developed methodology for comparing performance of initiatives run by different teams
- Designed data architecture for major cross-team reporting dashboard
- Guided data science team in adopting best-practices

Client: *major canadian retail group*   1/2019–7/2019

- Moved core analytics database from SQL Server to Azure Data Warehouse
- Optimized bottleneck operations, improving analytics latency from 20 hours to 40 minutes
- Guided team adoption of Docker, CircleCI; led testing and automation initiative

Client: *fortune 500 restaurant group*   9/2018–1/2019

- Migrated data science workflow to Azure Data Warehouse (previously self-managed)
- Reduced analytics pipeline latency from 30 hours to 6 hours and improved reliability
- Advised and assisted in transition from pure Python to a PySpark workflow

Udacity

Senior Backend Engineer   2/2015–8/2015

- Optimized backend to reduce CPU usage by 70% and decrease AppEngine bill by $30K/mo.
- Migrated legacy monolithic AppEngine site to AWS microservices
- Internationalized and localized main website for India launch
- Replaced payment backend to add Stripe support

Google, *Knowledge Graph & Machine Intelligence*

Software Engineer III   2/2012–2/2015

- R&D work on Google-scale in-memory distributed graph database
- Wrote two optimizing query compilers (for two source languages)
- Created visual debugger for inspecting graph diffs
- Led project test infrastructure improvements (recognized with Spot award)

EDUCATION

New Mexico Institute of Mining and Technology (NMT)

pursued Ph.D in Computer Science, no degree awarded   8/2007–12/2011

- Concentration: Information Security and Assurance

Rensselaer Polytechnic Institute (RPI)

B.S. in Computer Science   8/2003–5/2007

- Concentration: Bioinformatics