Joseph Wilkes

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EDUCATION

BS, Applied & Computation Mathematics (ACME) — April 2021

Brigham Young University — Provo, UT

- Concentration in Business Management
- GPA: 3.50
- Relevant Coursework:
  - Machine Learning, Optimization, Algorithm Design, Linear Algebra, Differential Equations, C++, Technical Writing, Statistics, Marketing, Finance, Probability

EXPERIENCE

Data Engineer — June 2022 – Present

Varian – A Siemens Healthineers Company — Vineyard, UT

- Built web based Plotly Dash dashboard with 10+ data visualizations & 30+ interactive components to provide insights on A/B test of clinician's use of AI models
- Engineered medical contouring data from nested & semi-structured to tabular form using Python with minimal guidance which provided statistics for A/B test of AI performance
- Updated Airflow ETL DAGs involving 3+ sources & transferred 200+ GB of medical data from Azure to GCP BigQuery for AI & ML utilization
- Automated manual process using Python for contouring setup to save 12+ hours

Analyst, SaaS Delivery — May 2021 – June 2022

Anglepoint — Lindon, UT

- Utilized Python, SQL, and Excel to identify millions of dollars in potential cost savings associated with management of Salesforce, Tableau, Adobe, & other SaaS vendors
- Awarded Selflessness Company Core Value Award Q3 – 2021
- Built & lead an internal Python resource group of over 12+ individuals across several teams with vision to enhance automation & analysis of client deliverables

Research Assistant — Apr 2020 – May 2021

Mathematics Department, B.Y.U. — Provo, UT

- Engineered a data pipeline for a High Performance Computing (HPC) environment using Python, Slurm, Bash, and Git yielding 10+ TB of data through 40+ years of computing
- Automated processes for visualization & optimization of millions of predictive models
- Communicated & collaborated about technical concepts while writing a research paper, presenting at two research conferences, and teaching about HPC & code functionality

Data Analytics Intern — May 2019 – Aug 2019

Imagine Learning — Provo, UT

- Developed 12+ features for several predictive models using SQL & Python
- Acquired proficiency with the following Amazon Web Services: Athena, S3, Glue, Redshift, Lambda, EC2, IAM as well as Google Cloud Platform mainly Google Maps
- Engineered novel datasets for geospatial analysis & executive reporting