SAMUEL D. MEYER

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SOFTWARE SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, R, Java, SQL

Tools: D3, Angular, React, Backbone.js, Node.js, Pandas, Keras, scikit-learn, Git, Docker

EXPERIENCE

Software Engineer III / *StreamSets* / 2020 – Current

- Building UIs for managing easy set up of data engineering tools using Angular and D3.
- Greatly expanded front-end unit testing.
- Added detailed tracking of user behavior that guides product development prioritization and marketing.

Product Manager / *StreamSets* / 2018 – 2020

- Led a team of 7 engineers to launch StreamSets Cloud, a cloud-native data engineering tool for dataflow management.
- Ran user interviews and usability testing to define new products.
- Built and maintained data analysis pipelines to measure feature usage.
- Transformed internal operations-focused Tableau dashboards to actionable customer-centric visualizations to guide product development.
- Managed Dataflow Performance Manager, a tool for visual dataflow monitoring.

Graduate Student Instructor - Information Visualization / *UC Berkeley* / 2018

- Taught 40 students design and development of information visualization.
- Wrote course material and assignments on D3.

Technical Product Manager Intern / *StreamSets* / 2017

- Created Node.js and D3-based product demonstrations for big data ingestion.

Software Engineer / *John McNeil & Company, Inc.* / 2012 – 2016

- Developed company's flagship product: a data entry interface for biologists and chemists to store a variety of scientific data and intelligently guide them toward proper formatting. (Node.js, Backbone.js, R)
- Developed an API retrieval system that reduced data refresh time from a month to a few days. (Python, SQL)
- Worked directly with client to maintain and expand a custom laboratory information management system that allowed chemists to double the number of chemical libraries synthesized. (VBA Excel)

EDUCATION

University of California, Berkeley
Master of Information Management and Systems, 2018, GPA: 3.8
School of Information Fellowship Recipient

Harvey Mudd College
B.S., Engineering, 2012, GPA: 3.7

PAPERS AND PATENTS

Le, Christopher V., Pardos, Z.A., Meyer, S.D., and Thorp, R. **Communication at Scale in a MOOC Using Predictive Engagement Analytics**, *International Conference on Artificial Intelligence in Education*, pp. 239-252. Springer, Cham, 2018.

Meyer, S., Chen, Y., and Hearst, M.A., **Visualizing A Walk in the Random Forest**, *Proceedings of IEEE Vis (Posters)*, 2017.

Boren, D.B., De Avila-Shin, M., Golay, D.B., Hill, N.W., Meyer, S.D., Phipps-Morgan, I.K. **Trolley Braking System**, Patent US 8960098 B2, 2013.

PROJECTS

Explainable Machine Learning for Public Policy

- Designed and developed a visualization of logistic regression and fair machine learning for public policy debate using React and scikit-learn.

Visualizing A Walk in the Random Forest / samueldmeyer.github.io/random-forest-viz/

- Created a visualization of the random forest machine-learning algorithm using D3.