

Matthew Hauser

Curriculum vitae

WORK EXPERIENCE

SEPTEMBER 2018 – PRESENT

Breaking Ground

Software Engineer

Breaking Ground provides a wide array of social services ranging from street outreach to property management for the chronically homeless population of NYC. The wide array of services provided necessitates an internal platform for data collection and distribution to provide the best possible outcome for our clients. On the Data Services team, I championed the effort to design and implemented an internal platform for data collection and sharing across all organization programs.

AUGUST 2015 – SEPTEMBER 2018

Blue Apron

Data Engineer

Instrumented an ETL pipeline using a variety of technologies to fill the needs of operational and consumer analytics. Architected and implemented the use of Airflow, an open source batch processing tool, to schedule and run jobs for with internal reporting, analytics and forecasting. Implemented the adoption of Google BigQuery as our data warehouse and Looker, a business intelligence tool, for making data easily accessible to stakeholders. Worked in a highly crossfunctional environment with software engineers, machine learning, analytics, operations, logistics, finance and demand forecasting. Built models to forecast various points of consumer demand.

JUNE 2013 – AUGUST 2014

Lucid Technics

Developer

Contexxia Analytics Contexxia provides innovative software for analyzing financial documents. Using NLP to extract information from documents, including quarterly and annual reports, notable information such as changes in dollar values and dates are highlighted and presented in a comprehensive web interface.

Dictation

Dictation is an open source English based domain specific language for describing business applications meant to smooth the understanding between a developer and a client by creating a simple natural programming language. Dictation paragraphs representing business objects are parsed and used to generate javascript code.

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EDUCATION

- 2015 **Master of Science in Engineering**
COMPUTER SCIENCE
Johns Hopkins University
- 2015 **Bachelor of Science**
COMPUTER SCIENCE
Johns Hopkins University

PUBLICATIONS

Andrew Lang, Aaron Carass, Matthew Hauser, Elias S. Sotirchos, Peter A. Calabresi, Howard S. Ying, and Jerry L. Prince. "Retinal Layer Segmentation of Macular OCT Images Using Boundary Classification." *Biomedical Optics Express* 4.7 (2013): 1133.

Aaron Carass, Andrew Lang, Matthew Hauser, Peter A. Calabresi, Howard S. Ying, and Jerry L. Prince. "Multiple-object Geometric Deformable Model for Segmentation of Macular OC." *Biomedical Optics Express* 5.4 (2014): 1062-074.

SELECTED COURSEWORK

- Parallel Computing
- Machine Learning
- Natural Language Processing
- Computational Genomics
- Databases
- Medical Informatics
- Medical Imaging Analysis
- Computer Vision
- FFT in Graphics and Vision
- Computer Integrated Surgery
- Algorithms for Sensor Based Robotics
- Cryptocurrencies

SKILLS

Python, SQL, Java, Postgres, Matlab, R, JavaScript, NumPy, Spark, Business Intelligence, Looker, Excel, AWS, RDS, EC2, S3, GCP, BigQuery, GCS, Data Analytics, Data Warehousing, Machine Learning, ETL, Airflow, Demand Forecasting, Excel