Résumé Bryan Bischof

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I am a mathematician-turned-data engineer with a penchant for applying rigorous quantitative thinking to difficult problems in the technology space. I am notorious for asking the right questions. I have a deep love for information presentation and communication.

Education

- (Oct 2015-Jan 2016): Galvanize Data Engineering Immersive
- (Sept 2008-May 2014): Ph.D. in Mathematics, Kansas State University
 - University Academic Excellence Award.
 - Surowski Memorial Fellowship Research Excellence Award.

Professional Experience

Blue Bottle Coffee (August 2016-Present): Senior Software Engineer, Data Engineering and Machine Learning

- Team Leadership led two engineers in refactoring, and feature development; mentored and coached junior engineers to produce production code and on SE process best practices
- Demand Forecasting Engine Daily predictions for 1000's of sku's > 50 locations
- Production Model and Prediction Deployments Designed AWS architecture and deployment
- Forecasting Pipeline and API Job queue and messeging based pipeline
- Data Warehouse Development implemented micro-service DB's; designed DB views
- BI Dashboarding, Performance Analysis developed performance metrics, and build user dashboards
- Project Planning and Development greenfield project development, prototyped, and productize V1
- Deployment and DevOps assisted in cloud infrastructure and devops for AWS ECS cluster
- Testing and Containerization Dockerized ML pipeline, integrated testing framework/jenkins (unit and integration)
- Recommendation Engine build a user-facing recommendation engine for coffee flavors
- Used Python, Ruby/Rails, StateSpace, Experimental Design, SQS, Redshift, SNS, ECS, pytest, Docker, Jenkins

Quasicoherent Labs (January 2016-Present): Founder, Data Scientist

- MedForm Entry Efficiency Analysis Experimental Design
- Recruit Forcasting Throughput forecasting Kaggle competition (top30% rank)
- \bullet When It Finally Happens Research and Data Visualization Book Project

IBM(Aspera Labs) (February 2014-July 2016): Software Engineer, Research and Development

- Terabyte-scale Spark Streaming data pipeline for Timeseries analysis
- Data Visualization Dashboard and Log File Processing
- Livestream data transfer experimentation, analysis, and paper writing
- Research and prototyped a number of data products for integration with Aspera's core software. This ranges from researching ML algorithms in specialized fields, to extensive mathematical modeling of signals.
- Satellite network analysis
- Used Scala, Spark, Kafka, Mesos, Python, REST API, JSON, Javascript, D3.js, CSS, HTML, Awk, Sed, BASH, GNUplot, C++, C, Ruby, jQuery, signal processing, statistics, control theory, experimental design.

Galvanize Data Engineering Immersive (October 2015-January 2016)

- Project driven course covering several of the most popular and essential big data technologies, architectures, and algoritms. Solo and pair programming labs daily-implementing, problem solving, and testing.
- Data Engineering Capstone: Spark Streaming log file parser.
- Used Spark, Scala, Kafka, MapReduce, Hive, Pig, Sqoop, Flume, Scalding, HDFS, Hadoop, Python, REST API, JSON, Java, JUnit, and more