Derek Gorthy

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PROFESSIONAL EXPERIENCE

Avanade, Seattle, WA

Senior Data Analyst, July 2018-Current

- Managed a team of four software engineers and developed a customer personalization engine for a large retailer, issuing
 personalized coupons for 70 million customers on a weekly basis. Developed the machine learning and ETL portions of this
 application using Databricks, Scala, MLflow, and Jenkins.
- Architected an extensible and scalable machine learning platform for a large technology company's marketing unit.
 Developed several demo applications on the platform using Python, Azure Data Lake, Azure Data Factory, and Power BI.
- Created Power BI dashboards on a variety of projects, visualizing large data sets stored within the Azure ecosystem.
- Actively contributed to the Analytics community by giving presentations on new technologies, organizing community events, and responding frequently to internal technical discussion forums (Yammer).

Comcast, Denver, CO

Big Data Engineering & Technology Intern, May 2017-August 2017

- Created a Java web API to run in a containerized cloud environment. Tested API response against existing benchmarks, developed performance and security criteria, and created a scalable solution for sub-second queries.
- Optimized application VIPs using visitor geolocation, historical load data, and SLA reports.
- Developed several in-production data ingestions from various sources. Combination of Big Data Technologies listed below.

Sandia National Laboratories, Albuquerque, NM

Cyber Engineering Research Laboratory (CERL) Undergraduate Intern, May 2016-August 2016

- Automated the querying process of a geospatial temporal semantic graph for large-scale testing and analysis.
- Created testing suite for the graphing codebase using C++, Python, bash scripts, and CMake.
- Designed a tool to process large quantities of output data and display useful statistics to non-technical customers.

PERSONAL PROJECTS

Cryptosub.io: Big Data Architecture Project (ranked top 3 in class)

- Developed streaming architecture to display prices and relevant tweets using Kafka, Spark, Python, and a Go socket layer.
- Created aggregate count cache to improve historic query response time 500x and significantly reduced server load.

Feature Film Features: Movie Poster Classification Machine Learning Project

- Leveraged convolutional neural network with sparsemax classification to identify movie genres from movie poster.
- Trained network with 40,000 IMDB images on Amazon's elastic GPU platform. Achieved an f-score of 0.41.

IOT Monitor for Weather Conditions (partnered with LGS Innovations)

- Designed and integrated a series of sensors into LGS Innovations' IOT framework using Node.js, MongoDB, and Python.
- Developed a method to model snow layering in real time and send notifications on specified layering conditions.

EDUCATION

University of Colorado at Boulder

May 2018

College of Engineering and Applied Sciences (Engineering Honors Program): B.S. in Computer Science, interest in Big Data **Leeds School of Business:** B.S. in Business Administration with an Emphasis in Finance and a certificate in Quantitative Finance Cumulative GPA: 3.754

TECHNICAL SKILLS

Languages: Python, Scala, R, Java, C++, C, Node.js, and React

Big Data Technologies: Spark, Kafka, Hadoop, Hive, Pig, Sqoop, Teradata, Azure Data Factory, and Azure Data Lake Other Technologies: Power BI, Microsoft Excel, Tensorflow, Pandas, NumPy, MongoDB, SQL, JSON, Regex, Git, and Docker Operating Systems: Windows, Linux, and OS X

HONORS, AWARDS, AND CERTIFICATIONS

- MSCE: Data Management and Analytics
- Databricks Project Partner Champion of the Year 2019
- Mathematical Contest in Modeling Outstanding Winner (2015, 2018), Meritorious Award (2016, 2017)
- Member of and Recitation Leader for the University of Colorado's Engineering Honors Program (2014, 2015, 2016, 2017)
- Dean's List Fall 2014, Fall 2015, Fall 2016, and Spring 2017