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Yucheng He

Richard

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Work Experience

Software Engineer, Cruise

Jul 2020 – Present

San Francisco, CA

- Work for Data Processing team that maintains Terra, a platform on top of Apache Beam for processing petabytes of AV road and simulation data
- Lead project with simulation team to migrate pipelines to next-generation metrics platform which allows Data Scientists, ML and System Engineers to discover, use and share metrics across road and simulation
- Help develop in-house workflow execution framework that defines and executes metrics-generating pipelines and achieved 3x pipeline runtime performance
- Social lead of the team, help plan team events, happy hours and quarterly offsite activities

Software Engineer Intern, Pinterest

May 2019 – Aug. 2019

San Francisco, CA

- Worked for ML&Signal Platform Team to provide feature and model platform for ML tasks at Pinterest
- Made new real-time features available on Pinterest feature store by integrating RocksDB with Hadoop I/O
- Integrated Apache Spark Dataset to Pinterest feature platform consumer API for offline training and serving
- Developed feature output preview and versioned feature history on Pinterest feature platform UI using Hive

Software Development Engineer Intern, Amazon

May 2018 – Aug. 2018

Seattle, WA

- Worked for Automated Advertising Team to deliver dynamic product ads on social network platforms
- Developed and launched dynamic product ads on Gemini (Yahoo) with one billion daily impressions

Education

Master of Comp Sci & Eng, Rice University

Aug. 2019 – May 2020

Bachelor of Arts, Rice University

Aug. 2015 – May 2019

Computer Science | Statistics

President's Honor Roll | GPA: 3.83

Projects

Contributor, RocksDB Open Source Project

Jul. 2019

- Contributed to RocksDB open source project to add the ability to read SST files in Java

Bespoke Life Using Deep Learning

Nov. 2017

- Developed an automated travel blog post generator based on the images using Deep Learning (RNN)
- Developed using Tensorflow and Numpy, deployed DL model on AWS and Oracle Cloud

Leadership Experience

Event Coordinator, Rice Blockchain

Nov. 2015 – Aug. 2019

- Plan events on educating students about the technical background of blockchain technology
- Plan roundtable discussion on applying blockchain technology

Skills

- Technical: Python, Java, Scala, Beam, BigQuery, Spark, Hadoop, Hive, Cascading, RocksDB, Docker
- Language: Chinese, English, German