

Contact

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(LinkedIn)

Top Skills

Java

Python

JavaScript

Sunny (Shenghui) Sun

Senior Data Engineer at Toyota Research Institute
San Francisco, California, United States

Experience

Toyota Research Institute

Senior Data Engineer

November 2017 - Present (7 years 3 months)

Los Altos, CA

Lumos Labs (Lumosity)

Data Engineer

June 2016 - November 2017 (1 year 6 months)

San Francisco, CA

As a Data Engineer on the Data Analytics Team:

- * Co-author of internal financial reconciliation and reporting system.

- ** Implementing and scheduling end-to-end data pipelines with Apache Airflow in Docker (ECS Container). Data flow includes calling third party merchant APIs, storing data in MySQL, S3, Redshift. Daily ETLs for data to be enriched and flow downstream for business decisions.

- ** Using Redis/Resque for batched data processing in a Ruby on Rails application.

- ** Analyzing and debugging financial data anomalies. Interfacing between finance, analytics, and platform teams after pinpointing the cause.

- * Helping internal customers (Financial Team, Marketing Team, Customer Success etc.) with SQL queries in Aleph, an open source Redshift analytics platform developed at Lumos Labs.

- * Improved events preprocessor that enriches event data before being published on Apache Kafka. Leveraged zendesk's ruby-kafka to recover events accidentally sent to recycle stream.

Microsoft

SDE II, Azure Data

January 2016 - June 2016 (6 months)

Sunnyvale, CA

Metanautix enables enterprises to harness all their data assets into better decisions and new products, delivering immediate insights from disparate data silos without requiring the data to first be moved into a centralized warehouse.

- Created Database Pushdowns Framework for predicate and project pushdowns.
- Migrated credentials from unencrypted protobuf storage to a centralized and encrypted Credentials Manager.
- Helped design and implement Connector Framework for developing data connectors to Metanautix Quest (Distributed Data Compute Engine).

Metanautix

Core Query Engineer

January 2015 - December 2015 (1 year)

Palo Alto, CA

Metanautix Quest

The Metanautix query system includes some of the following features:

- SQL 99 standard (running all TPC-DS queries)
- LLVM/JIT the executed code
- LLVM optimized code
- Handles large distributed computations
- Machine-learning optimizer/scheduler design
- Optimized connector architecture for a large number of NoSQL and RDBMS sources
- Authentication/RBAC
- Workspace UI

Amazon

Software Development Engineer

July 2013 - June 2014 (1 year)

Cupertino, Ca

Worked on Amazon Payments developing features and performance enhancements to continually improve Buyer Experience. Developed backend integration of the checkout flow for the launch of a new product: Recurring Payments. Created automation tests for Pay with Amazon integration.

Duke University

Undergraduate Teaching Assistant

August 2011 - December 2012 (1 year 5 months)

Durham, NC

Teaching Assistant for Data Structures and Algorithms Fall 2011

Teaching Assistant for Operating Systems Fall 2012

Cisco Systems

Software Engineering Intern

May 2012 - August 2012 (4 months)

Worked on the Server Access Virtualization Business Unit (SAVBU)

Developed a XML parsing tool that creates, edits, and displays data for the Unified Computing and Servers Manager (UCSM) Catalog using the Django framework

Google

Software Engineering Intern

June 2011 - August 2011 (3 months)

Mountain View, Ca

Google BOLD Practicum Associate

Worked on the Platforms Master Dashboard Team

Developed a monitoring system by implementing an asynchronous data collecting backend, server, and GWT based frontend

Used Java, Google Web Toolkit

The Ohio State University

Intern under Dr. Junmin Wang, Mechanical and Aerospace Engineering Department

June 2010 - August 2010 (3 months)

Columbus, OH

Developed a data logging and analysis system in Java for an Electrical Vehicle Battery Management System

Education

Dublin Jerome High School

Duke University

Bachelor of Science (BS), Electrical and Computer Engineering

Duke University

Bachelor of Science (BS), Computer Science