Joseph D. Batchik

josephbatchik@gmail.com - (410) 599-3550

Objective

To secure full-time employment in a challenging, fast-paced development role.

Work Experience

Cloudera - San Francisco, CA — Summer 2015
Software Engineer Intern — http://cloudera.com/
Worked on a several different parts of Apache Spark, including implementing performance increases which reduce network traffic by over 90% and integrating Apache Avro as a first class citizen into Spark core. Went through the process of packaging changes into major Hadoop release. Languages / tools used: Scala, Java.

Google - New York, NY — Summer 2014
SRE Engineering Practicum Intern — http://google.com/
Implemented load testing infrastructure for newly released software, allowing for early detection of bugs and performance defects before releasing to the end user. Reduced request latency by 70% for back-end monitoring services. Languages / tools used: Java, Python, Protocol Buffers, Google data stores.

Amazon - Seattle, WA — Spring 2014
Software Developer Engineer Intern — http://amazon.com/
Overhauled internal search capabilities for the Enterprise Data Warehouse team, allowing for near-real time search capabilities for Amazon's data analytics. Designed the System to be fault tolerant to preserve data integrity. Languages / tools used: Java, various Amazon cloud products, including Cloud-Search and SNS.

John Hopkins University Applied Physics Lab - Laurel, MD — Summer 2013
Engineering Intern — http://jhuapl.edu/
Working with a team, developed a sensor management system used to control and collect data from multiple telescopes remotely. Languages / tools used: Java, ant, svn, SQL, Google Protocol Buffers.

Additional prior summer internships:

Six3 Systems, Inc. - Fulton, MD — Summer 2012 - http://six3esd.com
SRA International - Columbia, MD — Summer 2012 - http://sra.com
RTGX - Ross Technology, Inc. - Baltimore, MD — Summer 2011 - http://rtgx.com
Computer Science Corporation - Hanover, MD — Summer 2011 - http://csc.com

Education

Rochester Institute of Technology - Rochester, NY — September 2012 - Present
Major: Computer Science, Minor: American Politics — In-Major: 3.82 GPA, Overall: 3.60 GPA
Graduation: May 2016 — Dean's List

Technical Skills & Certifications

Languages (a) Scala (b) Python (c) Java (d) Ruby (e) Go (f) Haskell
Tools (a) Git (b) Spark (c) Avro (d) Rails (e) PostgreSQL (f) JUnit (g) Protocol Buffers
Certifications (a) Cloudera Certified Developer for Apache Hadoop, 2012
Apache Spark Contributor Developed a solution to allow for Spark to efficiently read / write Apache Avro data formats. Worked on features in the Spark SQL engine.

Self-Directed Projects

Wikipedia Page Views: Using HDFS and HBase, built a system that processed and stored the page view log data for all of Wikipedia and presented the information in a real-time web UI. Personally setup and maintained an 8 node Hadoop cluster for the project.

Github Language Analysis: Built a data analyzer and ingest pipeline using Go to determine the programming language usage across all of GitHub. This provided key insights to language usage trends over time and in comparison to each other. Implemented a distributed ingest pipeline to increase processing capabilities.

LDAP Profiles: Created and maintain a Rails web application to act as a friendly interfreleasing to the end userIt integrates with WebAuth to securely provide keyless login. Actively used in production at Rochester Institute of Technology.

Awards

Maryland Math Engineering Science Achievement: Won 1st place in both regional and state level competitions for developing a maze traversal algorithm in Python.

Clubs & Activities

CSH (Computer Science House): An organization at RIT that provides a living and learning environment with access to unique facilities and hands-on learning, all in a social environment.