

# Mark Watson

Senior Software Engineer with over 7 years of full stack experience building sophisticated big data ETL pipelines, online advertising platforms supporting billions of transactions per day, and rich front-end interfaces using the latest JavaScript frameworks.

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## EXPERIENCE

### Uplight, Denver, CO — Senior Software Engineer

June 2017 - Present

- Developed new unified ETL pipelines and processes to handle ingestion of large amounts of data into the core platform using Spark, AWS GLUE, and event driven AWS Lambdas.
- Worked with customers to develop new functionality and API integrations across a variety of micro-services and serverless applications using a mix of Scala, Java, and Python.

### Rebel AI, Louisville, CO — Software Architect

November 2016 - January 2017

- Created a framework for running Hive queries using Hadoop / EMR to generate reports from large repositories of unstructured data (trillions of records spanning many TB).
- Documented and setup a test environment for the existing ETL / data platform.

### Altitude Digital, Denver, CO — Senior Software Engineer

December 2014 - October 2016

- Developed a server in Java/Spring to provide targeted video and display advertisements, handling up to 200K requests per second across a cluster at peak times, while keeping average response times sub 100ms.
- Created a dynamic Ad selection framework. The system used an online learning algorithm to select top performers using near realtime data.

### LinkSmart, Boulder, CO — Software Engineer

September 2012 - November 2014

- Built a web based analytics interface for browsing time-series data. Participated in a scheduled call rotation to manage server downtime, as well as managed the Cassandra reporting cluster to support this platform.
- Worked on new features in a Javascript library that was embedded in hundreds of sites across the web. Worked with QA to ensure the speed and stability of the library was maintained.

## LANGUAGES

Java / Spring, Scala,  
JavaScript,  
Python, Ruby/Ruby on  
Rails, JQuery, C/C++,  
Go/Golang

## SOFTWARE & DATABASES

PostgreSQL, MySQL,  
Druid, Hadoop, Hive,  
Spark, Cassandra, Git,  
Memcached, Mongo,  
Puppet, Ansible, AWS  
(serverless, containers,  
VMs), Mesos/Marathon,  
Docker, Kubernetes, GCE

## OPERATING SYSTEMS

Linux / UNIX, Windows

## EDUCATION

University of  
Colorado at  
Colorado Spring  
(UCCS)  
Bachelor of Science,  
Computer Science

Minors: Math and  
Statistics