

WORK EXPERIENCE	<b>Apple Inc. (iCloud)</b> - San Francisco, CA	2016 - Present
	Software Engineer	<a href="http://apple.com/">http://apple.com/</a>
	<ul style="list-style-type: none"> <li>Designed key aspects of the backing storage engine that enables iCloud to scale to hundreds of millions of users each month.</li> <li>Architected the new multi-tenant online compaction system which provides higher throughput guarantees and reliability by distributing workloads over backend resources evenly.</li> <li>Engineered a proactive solution to data loss prevention. Lead to the discovery of several undiscovered, subtle bugs in the underlying frameworks and data store.</li> <li>Vastly reduced database load by introducing a job framework that allows numerous scheduled jobs share the same pooled resources concurrently.</li> <li>Languages / tools used: Scala, Java, Cassandra, MapReduce Frameworks.</li> </ul>	
	<b>Cloudera</b> - San Francisco, CA	Summer 2015
	Software Engineer Intern	<a href="http://cloudera.com/">http://cloudera.com/</a>
	<ul style="list-style-type: none"> <li>Implemented network performance increases in Apache Spark that reduced traffic by over 90%.</li> <li>Integrated Apache Avro as a first-class citizen into Spark core for use in RDDs.</li> <li>Languages / tools used: Scala, Java, Apache Spark.</li> </ul>	
	<b>Google</b> - New York, NY	Summer 2014
	SRE Engineering Practicum Intern	<a href="http://google.com/">http://google.com/</a>
	<ul style="list-style-type: none"> <li>Implemented load testing infrastructure for newly release software, allowing for early detection of bugs and performance defects.</li> <li>Reduced request latency for back-end monitoring services by 70%.</li> <li>Languages / tools used: Java, Python Protocol Buffers, Google data stores.</li> </ul>	
	<b>Amazon</b> - Seattle, WA	Spring 2014
	Software Developer Engineer Intern	<a href="http://amazon.com/">http://amazon.com/</a>
	<ul style="list-style-type: none"> <li>Overhauled internal search capabilities for the Enterprise Data Warehouse team, allowing for near-real time searching for financial datasets and results.</li> <li>Designed the new search system to be fault tolerant to preserve data integrity.</li> <li>Languages / tools used: Java, various AWS products, including Cloud-Search and SNS.</li> </ul>	
	<b>John Hopkins University Applied Physics Lab</b> - Laurel, MD	Summer 2013
	Engineering Intern	<a href="http://jhuapl.edu/">http://jhuapl.edu/</a>
	<ul style="list-style-type: none"> <li>Working with a team, developed a sensor management system used to control and collect data from multiple telescopes remotely.</li> <li>Languages / tools used: Java, Ant, SVN, SQL, Google Protocol Buffers.</li> </ul>	
EDUCATION	<b>Rochester Institute of Technology</b> - Rochester, NY	2012 - 2016
	Major: Computer Science	In-Major: 3.82 GPA, Overall: 3.60
		Graduated <i>Cum Laude</i>
	Courses include: Programming Language Theory, Compiler Construction, Data Mining	
SKILLS & CERTIFICATIONS	<b>Languages</b> Scala, Java, Python, Go, Rust	
	<b>Tools</b> Git, Spark, Avro, Gradle, PostgreSQL, Cassandra, Protocol Buffers, Thrift, OpenJDK JMH	
	<b>Apache Spark Contributor</b> 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 INCLUDE	<b>Raft Key-Value Store</b>	
	<ul style="list-style-type: none"> <li>Distributed key-value store that provides linearizability guarantees for all type of operations.</li> <li>Out of the box support for leader election, transparent handling of failing nodes, and correctness under network partition.</li> </ul>	
	<b>CRDT Distributed Tally Service</b>	
	<ul style="list-style-type: none"> <li>Distributed backend counting service that is capable of withstanding large amounts of concurrent requests.</li> <li>Uses G-Counters as the backing asynchronous replication model.</li> <li>Utilizes a combination of lightweight threads for the request handling, Zookeeper for cluster state, and Thrift as the shared communication protocol.</li> </ul>	
	<b>Github Language Analyzer</b>	
	<ul style="list-style-type: none"> <li>Data analyzer and ingest pipeline using Go to analyze correlations in programming language usage across all of GitHub.</li> <li>Provides key insights to language usage trends over time and in comparison to each other.</li> </ul>	