

Experienced backend software engineer with 15 years of expertise in distributed systems, databases, and open-source development. Passionate about building reliable and maintainable software, with a track record of designing and operating systems in Go and Java, both on-prem and in AWS, while fostering team success and growth.

Work Experience

Staff Software Engineer Control Plane	Sundeck Remote, MD/OH	2022-2025
<ul style="list-style-type: none">Built the Sundeck Broker that proxies Snowflake queries, capable of altering queries before execution on Snowflake. Deployed as a SAAS using Go and deployed on AWS Lambda.Built a Snowflake Native App capable of materializing customer Snowflake metadata in support of Broker reporting and warehouse optimization features. Implemented with SQL and Python.Built and maintained all Sundeck infrastructure and CI/CD pipelines using Github Workflows and Pulumi (Python).Provided technical support for customer on-boarding and support cases.		
Principal Software Engineer Operational Database	Cloudera/Hortonworks Remote, MD	2021-2022
<ul style="list-style-type: none">Lead a team of engineers that delivered Apache HBase capable of leveraging cloud-native blob storage for table storage on AWS and Azure.Responsible for Apache HBase, ZooKeeper, and Phoenix in active and legacy Hortonworks and Cloudera products for on-prem and public cloud.Ensured Cloudera's priorities were in sync with upstream Apache Software Foundation communities.		
Staff Software Engineer Operational Database	Cloudera Remote, MD	2019-2021
<ul style="list-style-type: none">Added filesystem storage quotas to Apache HBase and delivered to Cloudera customers.Added pluggable RPC authentication to HBase to simplify strong client authentication to HBase.		
Engineering Manager Operational Database	Hortonworks Remote, MD	2017-2019
<ul style="list-style-type: none">Acted as the manager for the HBase/Phoenix/ZooKeeper team for ~8 developers.Built prototype for HBase write-ahead-log replacement using Apache Ratis (RAFT) to ease public-cloud adoption.		
Software Engineer Operational Database	Hortonworks Remote, MD	2013-2017
<ul style="list-style-type: none">Added Apache Accumulo into Hortonworks Data Platform with Apache Ambari and Kerberos support.Helped build Apache Slider Incubating which ran HBase on Hadoop YARN.Built Apache Calcite Avatica to provide a thin JDBC driver for Apache Phoenix.		
Software Engineer	SRA International Columbia, MD	2010-2013
<ul style="list-style-type: none">Data Warehousing with Apache Accumulo		

Education and Certifications

- **B.S. Computer Science**, Rensselaer Polytechnic Institute; Troy, NY

2006-2010

Technologies and Languages

- Languages: Go, Java, Python, Shell Scripting
- SQL: Postgres, Snowflake
- Technologies: AWS, Docker, Kubernetes, Linux

Open Source Projects

- [Apache Calcite](#): Built [Avatica](#), a generalized JDBC proxy over HTTP. (Committer and PMC member)
- [Apache HBase](#): Major project contributor from versions 1.0 to 2.3. Notable features contributed include storage quotas, pluggable RPC authentication, and explicit tracking of table data files. (Committer and PMC member)
- [Apache Phoenix](#): Integrated Avatica with Apache Phoenix to decouple complex client-side logic from user applications. (Committer and PMC member)
- [Apache Incubator](#): Mentored multiple projects successfully through incubation: Apache Ratis, Rya, Fluo.
- [Apache Software Foundation Member](#): ASF member responsible for continued growth of the Foundation.