

Robert Hall

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Technical Skills

Cloud: AWS, GCP

- ECS
- EMR
- Lambda + Step Functions
- DynamoDB
- RDS
- S3
- BigQuery
- DataProc
- CloudComposer

Languages

- Python (PySpark, Pandas)
- Java
- SQL
- Bash
- JavaScript

Technologies

- Airflow
- Spark
- Docker
- GraphQL
- Kubernetes
- Linux

Soft Skills

- Strong written and verbal communication, especially with complex technical material.
- I can work with business stakeholders, scientists, and managers to gather requirements for ambiguous projects, distill the information into a coherent project, then design and deliver solutions.
- Ability to work in a team: soliciting feedback from team members, focusing on solutions rather than finger pointing, making sure team members feel free to share their ideas.
- Time management.

Experience

May 2020 - Present

Climate Corporation, Seattle – *Senior Software Engineer*

- Spearheaded major data quality improvement initiatives in the Data Warehouse. Reduced error rate for our company's #1 most valuable piece of data (agricultural yield) from 20% to < 1%. Put MLOPs practices in place to prevent the problem from occurring again.
- Gathered requirements from multiple stakeholders, pushed through layers of ambiguity and uncertainty, then designed, implemented and delivered elegant solutions on time.
- Mentored junior developers and interns. This is something I'm extremely passionate about: increasing team capacity by lifting up people early in their careers to become effective contributors. My mentees get promoted and hired.

Sept 2019 - April 2020

Nordstrom, Seattle – *Senior Software Engineer*

- Quickly ramped up to become the domain expert for experiences and services owned by my team.
- Owned the operational strategy for rolling out in-store digital experiences for Nordstrom's NYC Flagship opening, resulting in a successful store opening that was critical to Nordstrom's business goals.
- Took on a Tech Lead role, mentoring a group of junior developers to design and deliver new internal tools. I especially enjoyed teaching junior developers about AWS technologies, Java best practices, and adopting a dev/ops mindset.

May 2017 - July 2019

AWS, Seattle – *Software Development Engineer II*

- Implemented the Search-by-AMI capability for <https://aws.amazon.com/marketplace>
- Independently made myself the subject matter expert on my team of a complex, critical internal service within AWS Marketplace and our sister team, Service Catalog. I leveraged my expertise in this area to fix insidious bugs and ship features for Service Catalog.
- Raised the bar for operational excellence on my team, leading by example. Drilled down to root cause operational issues, resulting in reduced ticket volume.
- Designed and delivered key components to the platform that replaced our legacy service. I designed how the platform provisions AWS Elasticsearch domains that now store our search documents. I also owned the creation of the backend workflow responsible for ingressing search documents into the new platform, using AWS technologies: Step Functions, Lambda, CloudFormation, DynamoDB, S3, and more.

September 2011 - May 2017

Vaisala, Seattle – *Software Development Engineer*

- Delivered real-time energy forecasts for solar & wind farms
- Collaborated with atmospheric scientists and machine learning specialists to improve forecast accuracy
- Scaled our data storage: we moved from an RDBMS to a NoSQL solution
- Developed internal tools to help Forecast Analysts engage with clients
- Shipped front-end visualization tool for complex TimeSeries data using d3
- Debugged issues in large, complex, legacy code base

Education

Western Washington University, Bellingham – *B.S., Computer Science*

Personal Projects

To view some side projects of mine, see: <https://b.obhall.com>. Most of the source is available at <https://github.com/bobhall>