

EXPERIENCE

PACCAR Inc.

Sept. 2020 – Present

Data Engineer Intern

Renton, WA

- Automated a reporting tool utilized by senior DBAs when on-prem servers were near critical capacity. Saving about an hour of work for the DBA team per month and marginally increasing database uptime.
- Implemented regression-based time series analysis to classify hundreds of Snowflake data warehouses as over/under utilized and rescale accordingly in order to save thousands of dollars per hour of compute operation.

Boeing Advanced Research Center

Jan. 2020 – Present

Machine Learning Engineer

Seattle, WA

- Built a quality assurance tool for engineers to predict failure rates of titanium parts using CT scans and microstructure imagery. Tool is expected to save Boeing hundreds of thousands of dollars per year in part failure reductions.
- Worked with material science PhD students to implement modern research papers from academia. Conveyed methods and findings to both technical and non-technical senior leadership.

American Classic Homes

Jun. 2019 – Sept. 2020

Data Scientist Intern

Mercer Island, WA

- Partnered with the land acquisitions team to develop web-scraping applications to aggregate housing sale and permit data within King County. Further data analysis identified a new growth area with over 300% growth in 2020.
- Predicted supply of new single-family homes with a 30-day margin to estimate neighborhood market saturation for up to 18 months in the future. Insights generated added hundreds of thousands of dollars in value to the company.
- Convinced management to migrate applications described above onto Azure Cloud. Created databases to automatically update and track scraped data for \$60 per month. Process written and published on [Medium](#).

Reomnify

Apr. 2020 – Aug. 2020

Big Data Intern

Remote

- Built a tool to measure the amount of natural resources within satellite imagery for any lat/long around the world.
- Implemented DBSCAN clustering to track the popularity and growth of POIs over time using consumer cell-phone foot traffic data that contained millions of observations. Application later migrated to Google Cloud's dataproc and big query.

PROJECTS

A First Look at Sports Analytics for the Sport of Spikeball/Roundnet

Mar. 2020 – [Link](#)

- Setup a pipeline to track a Spikeball from an overhead drone view.
- Tracked sports metrics like speed of ball, ball position, net position, speed of serve, number of hits, and more.

EDUCATION

University of Washington

June 2021

Bachelor of Science in Informatics: Data Science

Seattle, WA

SUMMARY OF SKILLS

- **Programming Languages:** Python, SQL, Java
- **Tools:** TensorFlow, SciKit Learn, Keras, OpenCV, Tableau, AWS, Azure, Teradata, Snowflake
- **Abilities:** Data Analysis, Machine Learning, Visualizations, Database, ETL, Automation, Web Scraping, Cloud Migration