

# Logan McKerlich

Data Scientist, Seattle WA

[Logan.Mckerlich@gmail.com](mailto:Logan.Mckerlich@gmail.com) | 425-623-3717 | [linkedin.com/in/loganmckerlich/](https://www.linkedin.com/in/loganmckerlich/) | [github.com/loganmckerlich](https://github.com/loganmckerlich)

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**Headline:** Data Scientist building production ML and AI systems that drive measurable revenue impact.

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## Skill Highlights

**Languages:** Python (pandas, NumPy, scikit-learn), SQL, R, Git, Docker, Terraform

**AI:** LangChain, Agentic Tool Integration, Prompt Engineering, Multi-LLM Orchestration

**Machine Learning:** Time Series Forecasting, Regression, Classification, Clustering

**Statistics:** Hypothesis Testing, Causal Inference, Experimental Design, Constrained Optimization

**Cloud Deployment:** AWS (S3, EC2, Lambda), Google Kubernetes Engine, GH Actions, Streamlit, Snowflake

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## Experience

### PACCAR Parts Data Scientist

| Aug 2022 - Current

- Led development of a self-serve analytics platform, including a productionized multi-step LLM system that translates natural language into executable code and synthesizes results into business insights, contributing to ~\$5M in revenue impact.
- Built a tool-integrated LLM agent using LangChain to automate structured Jira ticket creation, reducing ambiguity and improving cross-team workflow efficiency.
- Owned & enhanced a constrained optimization process using MINLP to optimize trailer loads given constraints and objectives.
- Delivered lead time forecasting pipeline incorporating supply chain dynamics and inventory forecasts. Improved ship date accuracy by 2 weeks.
- Launched a web-based analytics tool for warehouse managers, improving workforce efficiency and driving \$1.2M in annual operational improvements.
- Partnered cross-functionally with supply chain, sales, and operations teams to design custom forecasting and optimization tools influencing key business decisions.
- Established data standards and led training sessions to improve analytical rigor and adoption across teams.

### PACCAR Parts eCommerce Data Analyst Intern

| June 2022 - Aug 2022

- Developed and deployed a churn prediction model on AWS EC2, supporting ~\$2M in retention revenue through targeted intervention strategies.
- Automated high-value rebate processing using Python scripts, saving up to 70% on 6+ figure transactions

### Shelf Engine (Startup) Data Scientist Intern

| Feb 2022 - May 2022

- Explored and quantified the link between model accuracy and business outcomes by employing rule-based learning and partial dependence plots.
  - Delivered company wide presentation on findings to help influence feature prioritization.
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**Projects** - Get a glimpse of how I combine technical skills with my personal interests

### Cycling Aerodynamics Estimation Tool

- Developed ML model to predict bike speed based on inputs like wattage and elevation
- Analyzed residuals to estimate influence of unmeasured factors like aerodynamics

### Automated Shirt Creation & Sales Pipeline

- Scraped NCAA March Madness data to power a custom built AI product builder connected to Shopify through API.

### Web Hosted Stoplight

- Engineered a secure web server and deployed an app utilizing AWS to remotely control a decommissioned stop light
- Implemented an algorithm for real-time speech recognition

### Price Optimization

- Used decision tree segmentation with DML to estimate a causal effect of price variation on weekly sales
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## Education University of Washington

| Graduated June 2022

**Major:** B.A in Economics with Econometrics Focus

**Minor:** Data Science

**Academic Notes:** 3.56 GPA, 5x Dean's List

**Extracurricular:** Division 1 Rowing