

# Kenneth Hahn

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## EDUCATION

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### University of California, Berkeley

Expected: August 2025

Masters of Information and Data Science | 4.0 GPA

**Relevant Coursework:** Applied Machine Learning, Fundamentals of Data Engineering, Statistics for Data Science, Data Science Programming, Research Design and Applications for Data and Analysis

### University of California, Berkeley

May 2020

B.S. Chemical Engineering, Minor in Mechanical Engineering | 3.6 GPA

## SKILLS

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**Programming Languages:** SQL (MySQL, Postgres), Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn), R, NoSQL (Neo4j), MATLAB, HTML

**Data Visualization and Analysis:** JMP, Tableau

**Other Tools:** AWS, Github, LaTeX, COMSOL, Visual Studio, RStudio

## PROJECTS

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### Sustainable Bay Area Delivery Service

August 2024

- Created a Neo4j NoSQL Graph Database of BART, customer, and store locations within the Bay Area.
- Determined relationships between nodes by utilizing Google Maps Direction API to determine travel duration between two given nodes via BART or e-bike.
- Used Louvain Modularity and Dijkstra's shortest path algorithms to determine optimal new store locations to be within 40 minutes of any given customer.

### Regression Analysis of Blood Pressure on National Health

July 2024

- Analyzed data in R, collected by National Health and Examination Survey, to create linear regressions on factors such as body weight, smoking causes, and physical activity.
- Developed a linear regression model, evaluating the performance and assumptions through hypothesis testing.

## EXPERIENCE

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### Tesla

Fremont, California

Battery Pack Process Engineer

February 2022 – July 2024

- Created process for a new subassembly line via Postman API calls to parallelize workload and increase production of Model S/X battery packs by 33%.
- Decreased electrical resistances in battery pack to assist in safe operation of the vehicle, resulting in a statistical reduction of 57,430 defects per million to 98 defects per million.
- Utilized A/B testing to determine supplier quality issues with fasteners, leading to a 20% yield increase.
- Improved leak test processes implementing statistical process controls, reducing the number of off-road vehicles and saving the company \$800K/year.
- Developed Tableau Dashboards to monitor critical equipment KPIs for the new Cybertruck launch.

### Procter and Gamble

Sacramento, California

Hydrogenation Fatty Alcohol Manufacturing Engineer

August 2020 - February 2022

- Experimented and executed an increase to site throughput of Fatty Alcohol Product by 1%, resulting a site revenue gain of approximately \$3M/year, without the use of capital spending.
- Implemented process control strategies to tune a pressure control valve to allow higher pressures in the reactors. This led to a 0.2% increase in reaction completions and overall throughput (\$600K/year improvement).
- Decreased Unplanned Downtime by 5% (438 hours) through identification/mitigation of top contributors with Pareto Principle.
- Saved the business \$120K/year by optimizing flow rates of caustic through experimental tests.
- Eliminated 10% of nuisance alarms with MATLAB, collecting occurrence data and determining root cause for each.