

# ERKAN BOZKURT [bozkurte@berkeley.edu](mailto:bozkurte@berkeley.edu) | +1 832-451-8264

University of California, Berkeley - *B.S. Industrial Engineering and Operations Research*

August 2019 - PRESENT (graduating in Fall 2023)

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## EXPERIENCE

**DHL Express, Fremont (CA) - *Operations Engineering Intern*** | May 2022 - August 2022

- Transformed driver data into readable daily reports describing courier performance from the prior day using Jupyter Notebooks.
- Accumulated these daily reports to find trends in couriers' driving patterns, such as how closely they followed their optimized route.
- Conducted ride-alongs with a struggling driver to assess system inefficiencies. Improved their on-time delivery percentage by 29%.
- Visited two separate stations to train their couriers how to engage with their scanners implemented with new optimization software.

**Abbott, Lake County (IL) - *Operations Engineering Intern*** | May 2021 - August 2021

- Generated and implemented installation schedules for new LED lighting fixtures in one building and one parking lot to achieve annual energy savings of \$17,000. Formulated a visual blueprint for these projects using AutoCAD.
- Oversaw these LED installations while onsite to analyze progress and to ensure the projects were completed on time.
- Managed project timeline and enhanced the design for the renovation of main corridors in a main campus building.

**Quantico Energy Solutions, Houston (TX) - *Software Development / Data Analysis Intern*** | July 2020 - November 2020

- Refactored QEarth (a geophysical application used to predict rock properties) from MatLab to Python which decreased run times by hours and enabled us to return property volumes faster to clients. Presented my work during code reviews every two weeks.
  - Modified requirements.txt file and wrote a project setup guide for the virtual environment to facilitate workflow for new developers.
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## PROJECTS

**Capstone Project (The Volvo Group, Mack Trucks) - Part Commonization & Diversity Categorization** | January 2023 - May 2023

- Worked for Mack Trucks in a team of 4 other peers to create a categorization model that grouped 1697 total hardware parts by similar characteristics (diameter, length, material, etc.) in their kanban system using Deepnote, a cloud data science notebook.
- Suggested one master (replaceable) part for each group and eliminated remaining parts which saved order and inventory space costs.

**Google Play Store Data Set (End-to-End)** - Extracted, Cleaned, Visualized data. Then trained/tested a model.

- Extracted dataset containing all apps in the Google Play Store and their features. 1463 missing data entries for App Rating.
- Identified high correlating features to predict missing app ratings using KNN Regression. Graphed my predictions using Matplotlib.

**Image Classification- Where's Waldo?** - Found Waldo in a *Where's Waldo* Set.

- Found Waldo using template matching and OpenCV. Found the highest level of correlation between the template and the set.
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**SKILLS** | Python | NumPy | Pandas | Jupyter Notebooks | Sci-Kit Learn | SQL | Microsoft Excel | SolidWorks | MATLAB | Simio |

- Algorithms: Linear Regression, Logistic Regression, KNN Classification/ Regression
  - Object-Oriented Programming: Classes, Objects, and Methods | Version Control: Git and GitHub
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## TECHNICAL COURSES

- **U.C. Berkeley** - Foundations of Data Science, Computer Programming for Scientists and Engineers, Linear Programming and Network Flows, Machine Learning and Data Analytics, Stochastic Processes, Probability and Risk Analysis, Statistics, Forecasting, Quality Control, Simulation for Enterprise-Scale Systems, Engineering Economics, Three-Dimensional Modeling for Design
  - **Other** - AWS Machine Learning Fundamentals (Udacity), Supply Chain Principles (Coursera), Data Science (Codecademy)
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**PERSONAL SKILLS** | Leadership | Communication | Attention to Detail | Discipline | Persistence | Time Management |

- Theta Tau Professional Engineering Society UC Berkeley Chapter (April 2021 - PRESENT)
- BP STEP (Shaping Talent Energy and Potential) – BP Early Careers Leadership Program (2020)