

# 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 May 2023) ; Current GPA: **3.423 / 4.00**

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## EXPERIENCE

**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.
- Sourced lighting fixtures by developing business relationships with suppliers, negotiating pricings, and analyzing samples.

**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.
  - Worked in the agile methodology and presented my work during code reviews every two weeks.
  - Modified requirements.txt file and wrote a guide which demonstrates how to set up the correct virtual environment for the project to facilitate the workflow for new developers.
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## PROJECTS

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

- Extracted a Kaggle dataset containing all the apps in the Google Play Store and their features.
- 1463 missing data entries for App Rating column. Created a correlation heatmap to identify which columns strongly correlated with App Rating using Seaborn. Then, created a function that found the optimal set of features to use in my model.
- Predicted the missing data with logic instead of completely scratching rows from data using KNN Regression from the SciKit-Learn Library. Lastly, created graphs to represent 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.
- Translated this workflow, using a picture of my face as the template and a group picture with me in it.

**Object Detection / Image Segmentation in Geophysics (Velocity Picking)** - Identified high levels of Velocity Semblance.

- Corrected offset velocity from field measurements by using active contouring and edge detection with Scikit-Image.
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**SKILLS** | Python | Pandas | NumPy | SciKit-Learn | Matplotlib | OpenCV | Microsoft Office | MATLAB | SolidWorks | AutoCAD |

- 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, Introduction to Computer Programming for Scientists and Engineers, Designing Information Devices and Systems I, Linear Algebra, 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 |

- BP STEP (Shaping Talent Energy and Potential) – BP Early Careers Leadership Program
- Captain of High School Varsity Basketball Team (Jr. and Sr. year)
- Part time Barista at TZONE and U.C. Berkeley Campus Library Employee (October 2019 - March 2020)