

# PETER PRUDHOMME

## DATA SCIENTIST



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San Francisco, CA

peterjprudhomme

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Dynamic and motivated professional with a diverse background of skills and experience including a proven record of managing projects from concept to completion, applying analytical, data-driven thinking toward novel solutions, and working as a dedicated team member or independently as a self-starter.

## Skills

### LANGUAGES

Python

SQL

HTML/CSS

Java

Git

### MACHINE LEARNING

Linear and Logistic Regression

Supervised and Unsupervised Clustering

Natural Language Processing

Classification

### DATA MANAGEMENT

PostgreSQL

MongoDB

SQLAlchemy

Google Cloud Platform

### VISUALIZATION

Tableau

Seaborn

### PYTHON LIBRARIES

Pandas

Numpy

SciKit Learn

Beautiful Soup / Selenium

NLTK

### OTHER

Excel / Microsoft Office

Shopify Seller Platform

## Education

University of California, Santa Cruz

B.S. Applied Physics 2016

Minor Chemistry 2016

## Employment

### Metis

Data Scientist

San Francisco, CA

Sept. 2020 to Dec. 2020

- Full-time, selective 12-week data science immersive used to hone, expand, and contextualize skills in statistical modeling and machine learning
- Built several data science projects in Python using data science packages such as NumPy, Pandas, scikit-learn, and Keras
- See project section for more details

### SHINE SUPPLY

Projects/Operations Manager

Ventura, CA

Sept. 2017 to June 2020

- Proposed and implemented multi-step projects as project leader
- Set up computer inventory system for accurately tracking stock on hand; customized Shopify hosted website with HTML/CSS
- Wrote API code for accessing and organizing data reports in our Shipstation shipping account
- Analyzed shipping strategies in the US and abroad to lower costs and streamline order fulfillment
- Worked closely with company accountant to set up systems to check accuracy of tax filings and develop financial statements
- Created system for ordering stock and acted as purchasing manager
- Acted as Compliance Officer, making sure employees were trained and aware of safety protocols
- Wrote and posted advertisements for hiring new employees and conducted interviews of applicants; Oversaw warehouse employees

### RKD ENGINEERING

Lab Technician

Scotts Valley, CA

Oct. 2016 to Feb. 2017

- Worked independently to select acids for use as decapsulant on integrated circuits containing silver and copper lead wires
- Tested various acids in lab on circuits using Elite Etch Decapsulator

### University of California, Santa Cruz

Undergraduate Researcher, Sadrozinsky SCIPP Lab

Santa Cruz, CA

Sept. 2015 to May 2016

- Used LCR meter to characterize silicon detector strips
- Graphed data sets in Excel of pre- and post-irradiated strips for analysis
- Trained new lab members in LCR use and data analysis

## Projects

### Poetry Pitch: A Poetry Recommendation Tool

- A content based recommendation engine with a web interface for users to create accounts and 'like' poems to generate custom recommendations
- Poem corpus scraped from Poetry Foundation website
- Determined 15 topics within poem corpus using LDA of cleaned poem text
- Represented each poem as a combination of engineered features: author, word count, average word length, vocabulary obscurity score and repetition score
- Web interface build with flask with user account info stored in SQLite database with Bcrypt password encryption

### Client Churn Prediction

- A model to determine whether or not a client at a bank was likely to close their account based on a client database
- Data collected from Kaggle
- Utilized Random Forest Model for classification with an adjusted threshold to favor model recall
- Final model recall of 95% and precision of 40%

### Undergraduate Thesis

Methods of Measurement and Characterization of Irradiated Silicon Detector Strips with respect to Capacitance, Count Rate, and Time Threshold