

# Bernard Wong

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

BS IN DATA SCIENCE

BS IN PROBABILITY AND STATISTICS

Anticipated Graduation: June 2021

## SKILLS

### LANGUAGES AND TOOLS

Python • Java • R • Matlab •  $\LaTeX$  •  
Tableau • HTML

### PYTHON PACKAGES

Pandas • NumPy • SciPy • Scikit-Learn •  
ArcGIS • Matplotlib • Seaborn •  
BeautifulSoup • RegEx • Selenium •  
SQLite • PostgreSQL

### MACHINE LEARNING

Statistical Analysis • Nearest Neighbor  
Classifiers • Linear Classification •  
Multi-Class Classification • Dimensionality  
Reduction • Boosting Algorithms •  
Regression Models • Gradient Descent •  
Support Vector Machines • Principal  
Component Analysis • Graph Theory •  
Decision Trees (ID3)

## COURSEWORK

### UNDERGRADUATE

Statistical Approaches to A.I.  
Data Analysis and Modeling  
Applications of Spatial Data Science  
Data Structures  
Statistical Methods  
Linear Algebra  
Introduction to Data Management  
Recommender Systems and Web Mining

## LINKS

LinkedIn:// [bew030](#)

GitHub:// [bew030](#)

## VOLUNTEER

### HINSDALE HOSPITAL, EMERGENCY ROOM

July 2015 – Dec 2017 | Hinsdale, IL  
Organized paperwork and assisted  
patients, making the emergency room  
more efficient. Logged 70+ hours.

## EXPERIENCE

### SCRIPPS RESEARCH | DATA SCIENCE INTERN

June 2019 - Present | San Diego, CA

- Creating a professional research report outlining the effects certain sleep variables have on quality of sleep and quality of life
- Utilizes Pandas to clean out large data sets regarding health and uses analytical and statistical methods to find meaning and patterns in the data
- Creates visual graphs utilizing Matplotlib and Seaborn regarding trends in the data, making it easier for users to understand the data

### NIMBER INC. | BUSINESS ANALYTICS INTERN

June 2019 - Present | San Diego, CA

- Collaborates with team members to create business plans that focus on expansion of the company and promotion of the product
- Utilizes Python and R to help create and statistically analyze surveys with questions regarding consumer opinions on User Interface and Experience
- Writes reports regarding the performance of the product that includes statistical analysis and useful visuals which are shown to potential investors

## PROJECTS

### ANALYSIS OF TRAFFIC AND COLLISIONS IN SAN DIEGO

- Collaborated with a team to write a report on the relationship between traffic and collisions in San Diego for the DS3 Lyft Datathon
- Created geographical visuals such as choropleths and map timelapses representing traffic routes and instances of collisions
- Project was selected by Lyft as the winner of the Datathon

### STOCKX ANALYZER

- Utilized Pandas, NumPy, Regex, and Email to collect clothing order receipts from an email inbox to create a neatly organized product inventory
- Improved an API, allowing for easier access to user interactions and product data on StockX, a website that provides data on shoe and clothing sales
- Created methods that scraped the StockX website and compiled product prices

### LYFT DRIVER VALUATION REPORT

- Manipulated and cleaned datasets, performed statistical analyses, and created useful visuals that answered potential financial inquiries Lyft may have
- Utilized SciPy and linear regression to visualize and accurately predict the value the average driver brought to Lyft over a projected lifetime
- Wrote an 8 page report that summarized findings in a concise, coherent manner

## ACTIVITIES

### COGN. SCIENCE STUDENT ASSOC. | HEAD OF PUBLIC RELATIONS

Sept 2017 – Sept 2018 | San Diego, CA

Collaborated with fellow board members to plan events and contact speakers for different CSSA events. Additionally organized an event explaining the differences between machine learning, data science, and artificial intelligence.

## AWARDS

2019 1<sup>st</sup>/200 UCSD DS3 Lyft Datathon