

# Miguel Garcia

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## EXPERIENCE

### COMSORT, INC., (DBA MEDIFIND) A WHOLLY OWNED SUBSIDIARY OF MERCK & CO., INC | DATA ENGINEER | (FULL-TIME, SALARY)

Feb 2021 – Present | Working Remotely From San Diego, CA

- Supported operation tasks such as data refreshes, automatic alias updates through python and airflow, etc.
- Assisted team members in troubleshooting development, test and production runs of the application.
- Wrote several python scripts to incorporate with airflow in order to automate data pipeline processes.

### NGOGGLE DIAGNOSTICS, INC | CONSULTANT (DATA SCIENTIST RELATED WORK) | (PART-TIME, PAID BY THE HOUR)

Dec 2019 – Jan 2021 | San Diego, CA

- Worked on a research project that involves developing effective neurofeedback systems that can help classify sleep stages using low-cost and non-invasive EEG electrodes.
- Identified key performance indicators that are important towards improving sleep quality and for calculating the sleep onset of patients by doing exploratory analysis of the collected/available data.

### UCSD COGNITIVE SCIENCE DEPARTMENT | INSTRUCTIONAL APPRENTICE (FOR THE COURSE COGS 108) | (PART-TIME, NON-PAID)

Sep 2019 – Dec 2019 | La Jolla, CA

- Assisted with the teaching of an upper division course in Data Science.
- Organized weekly discussions and office hour sections where students ask any data science related questions and get help on their projects.

### SWARTZ CENTER FOR COMPUTATIONAL NEUROSCIENCE RESEARCH ASSISTANT VOLUNTEER | (PART-TIME, NON-PAID)

Jul 2019 – Nov-2019 | San Diego, CA

- Applied machine learning algorithms and models to assist with the detection of sleep stages on subjects diagnosed with RBD.
- Provided analytics and visualizations on how the brain signals behave under certain sleep disorders (bruxism, nocturnal frontal lobe epilepsy, etc)

## PROJECTS

### GENERATIVE MODELS FOR IMAGE REPRODUCTION

PYTHON | TENSORFLOW | MACHINE LEARNING | DATA SCIENCE

- Analyzed the performance of different autoencoders and adversarial neural networks for reproducing image input using the CelebA dataset.
- Built the architecture for the neural networks and the autoencoders using PyTorch and wrote multiple pipelines to process the data.

### MEET TO DINE - SPONSOR WINNING PROJECT

HTML | CSS | NODE.JS | ALGORITHMS

- Sponsor winning project (OpenTable) where we designed a mobile app at Cal Hacks 4.0 (UC Berkeley) that facilitates groups of people agreeing upon eating at the best location possible.
- Developed a location tracking functionality, and implemented backend infrastructure by developing a restaurant selection algorithm. Created application in react native using expo.io.

## EDUCATION

### JOHNS HOPKINS UNIVERSITY

M.S. IN DATA SCIENCE | PART-TIME (ONLINE)  
Expected Dec 2022 | Baltimore, MD

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

B.S. IN COGNITIVE SCIENCE WITH A  
SPECIALIZATION IN MACHINE LEARNING AND  
NEURAL COMPUTATION  
March 2020 | San Diego, CA

## SKILLS

### PROGRAMMING

- Python • Java • C/C++
- HTML • CSS • JavaScript
- Node.js • SQL • R
- Spark • Scala

### TECHNOLOGY

- MongoDB • MySQL
- Git/Github • Linux
- UNIX • Bash • Zeppelin
- Airflow • AWS • Hadoop

## STUDIES

### MASTERS

Algorithms for Data Science  
Data Visualization  
Data Structures  
Discrete Mathematics

### UNDERGRADUATE

Machine Learning I and II  
Adv. Machine Learning Methods  
Brain Computer Interfaces  
Data Science in Practice  
Multivariable Calculus  
Programming in Java I and II  
Programming in C  
Software Tools and Techniques  
Data Structures  
Probability Theory  
Linear Algebra  
Vector Calculus

## LINKS

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Personal Website:  
<https://miguelgarciad.com>