Dexter Luu

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Core Competencies

- Python
- R
- SQL
- MATLAB
- Tableau
- Microsoft PowerPoint
- Microsoft Excel
- Data transformations
- Dashboard experience
- Team player
- Communication skills
- Presentation skills

Education

San Diego State University — **Finished March 2020**
Master of Science: Statistics — *Cumulative GPA: 3.95*

Work Experience

Data Engineer Intern — (June 2019 – August 2019)
ASML

- Improved characterization of critical to customer parameters through statistical analysis in Python
- Led a project to improve a manufacturing tool's efficiency via math modeling and succeeded in a 15% reduction in cycle time
- Generated daily reports using SQL to highlight daily and weekly manufacturing performance

Data Analyst Intern — (October 2018 – April 2019)
Article Innovations

- Improved market share forecasting abilities by 10% by testing machine learning and data models and implementing the best one
- Developed exploratory analyses in Python and communicated findings in routine presentations to executives

Manufacturing Associate — (July 2017 – May 2018)
BioMarin Pharmaceuticals through Pro Unlimited

- Obtained routine samples, analyzed them, and made process adjustments in response to the data obtained
- Maintained data integrity through routine checks of batch record entries
- Worked on automating a mid-process product selection tool through a Python script

Student Research Assistant — (October 2015 – February 2017)
UC Davis – Department of Pharmacology

Principal Investigator: Daisuke Sato, Ph.D

- Mathematically modeled cardiac action potential in a point system, a 1D fiber system, and a 2D tissue system
- Assisted in report creation by generating plots and tables using R and MATLAB

Relevant Projects

Restaurant Dashboard: Link to project.
Full project consisting of collecting data via web scraping, creating data pipelines to store the data in a SQL database, processing the info to gain insights, and creating data visualizations using Tableau dashboards to communicate findings.

Recommender System: Link to project.
Project consisting of collecting and pipelining data into a RDB using Python's scrapy, cleverly analyzing big data using collaborative filtering on sparse matrices in scipy, and showcasing recommendations using R shiny.