Mitchell Layton

Statistical Data Science Student at UC Davis

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Experience

Data Analyst Intern

Pacific Gas and Electric Company (PG&E), San Francisco | June 2018 - August 2018

- Developed software for metric reporting tasks by utilizing Python, SQL, and Excel to limit manual workflow and optimize speed with regards to data selection and aggregation
- Coordinated a web application prototype using ASP.NET MVC based upon business requirements and desirable features to replace an outdated metric reporting system
- Created front-end web pages that coordinated with a newly designed back-end SQL database
- Presented summer project to team to improve strategies and operations

SQL Developer & Database Analyst Intern

California Energy Commission, Sacramento | June 2017 - August 2017

- Programatically developed complex T-SQL queries against the energy products database to extract important data with accompanying reports of data submittals errors
- Designed and enforced database constraints to improve business productivity and database efficiency
- Collaborated with their former DBA to learn database schema and design implementation techniques

Skills

Programming (Python & R) — 2 yrs.
- Intermediate programming experience and software development through implementation of classes, objects, functions, and modules
- Developed machine/statistical learning models and scripts for data driven tasks including extraction, manipulation, transformation, computation, and visualization
- Strong understanding of frequently used packages: Pandas, NumPy, scikit-learn, Django, BeautifulSoup, matplotlib, SciPy, etc.

SQL — 2 yrs.
- Developed complex queries and procedures to satisfy ad hoc requests regarding energy product databases
- Intermediate working knowledge of SQL language and syntax
- Prototyped and redesigned a new relational database design schema to improve organization and efficiency

Git
- Intermediate experience with Git as primary version control software working with teams throughout classes and companies

Data-Driven Tasks
- Collecting, aggregating, indexing, manipulating, transforming, visualizing, and reporting

ASP.NET MVC
- Prototyped CRUD application to meet important business requirements
- Developed using the model, view, and controller architectural pattern and implemented a database-first design

HTML, CSS & Javascript
- Development using these three languages to create web forms, applications, and my personal website
- Experienced with CSS & CSS preprocessors (LESS) while using Bootstrap to create simple, functional, and well designed forms

Personal & Other
- Extremely analytical, self-directed, and organized with strong interpersonal communication and team skills
- Relational Database Design, Statistical Methods & Theory, Machine Learning Methods & Theory, Linear Algebra

Education

University of California, Davis

Bachelor of Science, Statistics: Statistical Data Science | December 2018 Graduation

- Relevant Coursework: Statistical Data Science (4-part series), Python Programming, R Programming, Statistical Learning & Regression, Machine Learning, Multivariate Data Analysis, Applied Linear Algebra, Mathematical Statistics, Probability Theory, Sampling Theory, Calculus (4-part series)
- NCAA Division I Student-Athlete: UC Davis Football Team | Jan 2015 – December 2018