

# Mitchell Layton

Statistical Data Science Student at UC Davis

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<https://github.com/MitchellRLayton>

## Experience

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### Data Analyst Intern

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

- Developed automated processes for the metric reporting team by utilizing Python, SQL, and Excel formulas to create efficient data aggregation and reporting
- 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a web application prototype using ASP.NET MVC based upon business requirements and desirable features to replace an outdated metric reporting system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 back-end SQL database design schema
- Presented summer project to team to improve strategies and operations

### SQL Developer & Database Analyst Intern

*California Energy Commission, Sacramento* | June 2017 - August 2017

- Generated solutions to database problems and employee limitations
- 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

## Skills

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### Programming (Python & R)

- Intermediate programming experience and 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
- Utilized top community packages including: Pandas, NumPy, scikit-learn, Django, BeautifulSoup, matplotlib, SciPy, sqlite3, etc.
- Practiced clean and efficient python code

### SQL

- Developed complex queries and procedures to satisfy ad hoc requests
- Intermediate working knowledge of SQL language and syntax
- Redesigned and manipulated database design schema in a relational setting to improve organization and efficiency

### Git

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

### 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 (*Personal Website: <https://mitchellrlayton.com/>*)

- Development in the HTML language for creating web forms and applications
- Experienced with CSS & the CSS preprocessor LESS—utilized the Bootstrap 4 and personalized CSS to create simple, well designed web forms and pages to ensure efficiency and effectiveness of workflow

### 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

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### 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