Email: [sengkchu@gmail.com](mailto:sengkchu@gmail.com)**Seng Kin Chu**Website: [codingdisciple.com](https://codingdisciple.com/)

Social: [linkedin.com/in/seng-kin-chu](https://www.linkedin.com/in/seng-kin-chu/) San Francisco, California Portfolio: [sengkinchu.github.io](https://sengkinchu.github.io/portfolio.html)

**OBJECTIVE**

To apply my unique perspective in problem solving, optimization and analytics from process engineering in the field of data science. Specifically, drawing valuable insights from data and providing practical solutions.

**TECHNICAL SKILLS**

**Programming**: Python, HTML, CSS**Database** **Systems**: PostgreSQL, MySQL

**Libraries**: Pandas, Numpy, Scikit-learn, Scipy **Data** **Visualization** **Tools**: Seaborn, Plotly, Tableau

**Frameworks**: Git, Spark, Dash**IDEs**: Jupyter Notebook, Spyder

**PROJECTS**

**Gender Gap Visualization App**

* Developed a web application for data visualization of employee salaries in California using Python. [Link](https://gendergapvisualization.herokuapp.com/)
* Designed the interface and layout using HTML, Bootstrap, and Dash.
* Processed and cleaned the data using Pandas and Numpy.
* Analyzed the data based on gender and job categories. [Summary](https://sengkinchu.github.io/sf-gender-gap.html)

**codingdisciple.com**, November 2017 – Present

* Designed the website, which aims to provide educational resources on coding in data science using examples and mini-projects. This website also acts as a host for my end to end data science projects.
* Created a 7-part series on statistics and hypothesis testing in Python. [Example](https://codingdisciple.com/bootstrap-hypothesis-testing.html)
* Demonstrated the data analysis process, from extracting data using SQL to answering business questions. [Example](https://codingdisciple.com/business-data-analysis-sql-python.html)
* Provided solutions to 17 guided projects from Dataquest.io demonstrating the usage of tools such as pandas, numpy, matplotlib, scikit-learn, SQL and spark. [Example](https://codingdisciple.com/titanic-survival.html)

**EXPERIENCE**

**Associate Process Engineer**, June 2014-January 2017

AMPAC Fine Chemicals, Rancho Cordova, California

* Investigated chemical releases by analyzing real time data, prevented a major chemical accident by identifying the cause within 2 hours.
* Presented chemical release data to the Sacramento County and prevented a major fine from the government.
* Analyzed process equipment failures by process of elimination, testing each part of the equipment to ensure functionality.
* Collected and interpreted process data to determine process bottlenecks.
* Presented data to the R&D department and proposed/implemented process change that improved production cycle time by 15% and production yield by 5%.

**Dataquest Community Moderator**, February, 2018 - Present

Dataquest.io, San Francisco, California

* Forum moderator for a Slacks community of over 5,000 members
* Answer various questions in Python, statistics, SQL

**EDUCATION**

**Bachelor of Science in Chemical Engineering,** June 2013

University of California, Davis, 3.53/4.0 GPA

• Relevant Coursework: Linear Algebra, Multivariable Calculus, Differential Equations