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# Seng Kin Chu

San Francisco, California

Website: [codingdisciple.com](http://codingdisciple.com)

Portfolio: [sengkinchu.github.io](https://sengkinchu.github.io)

## OBJECTIVE

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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

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**Programming:** Python, HTML, CSS

**Libraries:** Pandas, Numpy, Scikit-learn, Scipy

**Frameworks:** Git, Spark, Dash

**Database Systems:** PostgreSQL, MySQL

**Data Visualization Tools:** Seaborn, Plotly, Tableau

**IDEs:** Jupyter Notebook, Spyder

## PROJECTS

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### Gender Gap Visualization App

- Developed a web application for data visualization of employee salaries in California using Python. [Link](#)
- 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](#)

[codingdisciple.com](http://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](#)
- Demonstrated the data analysis process, from extracting data using SQL to answering business questions. [Example](#)
- 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](#)

## EXPERIENCE

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**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

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**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