

Email: [sengkchu@gmail.com](mailto:sengkchu@gmail.com)

Social: [linkedin.com/in/seng-kin-chu](https://www.linkedin.com/in/seng-kin-chu)

# Seng Kin Chu

San Francisco, California

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

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

## OBJECTIVE

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To apply my unique perspective in problem solving and analytics from process engineering in the field of data science. Drawing valuable insights from data or creating interactive dashboards.

## PROJECTS

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### GPU Analytics

- Developed the web application for data visualization of GPU prices and specifications using Python. [GitHub](#)
- Designed the app front-end interface and layout using HTML, Bootstrap, and Dash.
- Created the back-end database using SQLite, and communication with the database using Pandas.
- Implemented scripts to automatically update the database daily from web scraped data using BeautifulSoup.
- Assembled the web application on a Cloud VPS host, Digital Ocean using Ubuntu OS.

### Gender Gap Visualization App

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

### MAL Reviews Scraper

- Built a web scraping tool to extract raw data from MyAnimeList.net into a SQL database. [GitHub](#)

[codingdisciple.com](https://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](#)
- Provided solutions to 17 guided projects from Dataquest.io demonstrating the usage of tools such as Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, SQL and Spark. [Example](#)

## EXPERIENCE

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**Associate Process Engineer** - AMPAC Fine Chemicals: June 2014-January 2017

- Shift technical lead for the manufacturing of active pharmaceutical ingredients in a large scale production facility.
- Conducted process related decisions and assigned work priorities.
- Trained operations personnel on the production process and safety measures.
- Collected and interpreted process data to determine process inefficiencies.
- Presented data to the R&D department and proposed/implemented process change that improved production cycle time by 15% and production yield by 5%.

**Safety Associate**, CareDx: October, 2017 – Present

- Emergency response staff for clinical laboratory personnel.

**Dataquest Community Moderator**, Dataquest: February, 2018 – Present

- Moderator for a Slacks community of over 7,000 members, a forum for Python, statistics, SQL.

## EDUCATION

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**Bachelor of Science in Chemical Engineering**, University of California, Davis: 3.53/4.0 GPA