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 and analytics from process engineering in the field of data science. Drawing valuable insights from data or creating interactive dashboards.

**PROJECTS**

[**GPU Analytics**](https://sengkinchu.github.io/gpu-analytics.html)

* Developed the web application for data visualization of GPU prices and specifications using Python. [GitHub](https://github.com/sengkchu/gpu-analytics)
* 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](https://sengkinchu.github.io/sf-gender-gap.html)**

* Developed a web application for data visualization of employee salaries in California using Python. [GitHub](https://github.com/sengkchu/gendergapvisualization)
* 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**](https://sengkinchu.github.io/mal-reviews-scraper.html)

* Built a web scraping tool to extract raw data from MyAnimeList.net into a SQL database. [GitHub](https://github.com/sengkchu/MAL-reviews-scraper)

[**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](https://codingdisciple.com/bootstrap-hypothesis-testing.html)
* 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](https://codingdisciple.com/titanic-survival.html)

**EXPERIENCE**

**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 and implemented process changes that improved production cycle time by >15%.
* Managed chemical inventory to ensure zero downtime due to lack of raw materials.

**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**

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