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

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**SUMMARY**

Data oriented process engineer looking to leverage problem solving, troubleshooting, optimization and analytical skills in the field of data science.

**TECHNICAL SKILLS**

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

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

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

**PROJECTS**

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

* Created the website, which aims to provide educational resources on coding in data science by using examples and projects.

Content includes but not limited to:

* A 6-part series on the basics of statistics and hypothesis testing in Python. [Link](https://codingdisciple.com/hypothesis-testing-welch-python.html)
* Business oriented data analysis/visualization with SQL and Python. [Link](https://codingdisciple.com/business-data-analysis-sql-python.html)
* Predicting Titanic Survivors using machine learning with emphasis on data exploration. [Link](https://codingdisciple.com/titanic-survival.html)
* Working with Spark SQL and Spark Dataframes in Python. [Link](https://codingdisciple.com/spark-dataframe-sql-python.html)

**EXPERIENCE**

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

AMPAC Fine Chemicals, Rancho Cordova, California

* Investigate 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.
* Troubleshoot process equipment failures by process of elimination, testing each part of the equipment to ensure functionality.
* Collected and analyzed process data to determine process bottlenecks.
* Assisted in preparation of weekly manufacturing reports and presentations
* Presented data to the R&D department and proposed/implemented process change that improved production cycle time by 15% and production yield by 5%.
* Revised equipment cleaning work instructions and reduced cleaning downtime by 30%

**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

**Data Scientist Path,** February 2018

*Dataquest.io*, online certification