

Livermore, CA
925.290.5484
soong.lee@gmail.com

SOONG LEE
US Citizen

linkedin.com/in/soonglee
github.com/ggigaev

SUMMARY OF QUALIFICATIONS

- An engineer turned data scientist, interested in leveraging data science and artificial intelligence to build applications to translate pile of information into reasonable insights and drive business values.
- Experienced in data collection, analysis, and visualization using JMP and SQL working as a process engineer in a semiconductor chip manufacturer.
- Completed a data science immersive program on-site with a curriculum in machine learning techniques, statistics, data processing, data visualization, culminating in a capstone project.
- Fluent in Python; experienced with JMP, SQL and Statistics.

PROFESSIONAL EXPERIENCE

Galvanize, SAN FRANCISCO, CA 02/2018 – 05/2018

- Completed a capstone project predicting restaurant inspection failures in SF, based on the previous history of violations. Technologies used: Python, Pandas, SKlearn, MongoDB, BeautifulSoup, Flask, HTML, JavaScript, AWS EC2, S3. [SFeaters](#)
- Participated in a group case study for identifying new events that are worthy of investigation for fraud. Technologies used: Python, Pandas, Numpy, SKlearn, Matplotlib. [fraud detection](#)

PDF Solutions, SAN JOSE, CA 02/2016 – 10/2016

Sr. Process Engineer

- Performed e-beam inspection applications development with Voltage Contrast method for customer demos and tool matching.
- Collected e-beam images and processed the data using Python programs to extract test cell images.

INTEL CORPORATION, CHANDLER, AZ 2012 - 2015

Dry Etch Process Engineer

- Sustained dry etch tools in production and monitored inline and tool hardware status for yield control.
- Performed data pulling using SQL for root cause analysis and inline monitoring in order to resolve defects and address parametrics, which helped the yield enhancement in factory overall.
- Drove the completion of three pilot projects, which entailed pulling and analyzing enormous amount of inline data using JMP. These resulted in reduction in manufacturing cost.

AUROS TECHNOLOGY, SUWON, S. KOREA 2011 - 2012

Sr. Applications Engineer

- Steered applications development for overlay metrology tool with optical CD capability.
- Conducted evaluation tests for a joint project with Samsung pre- and post- tool installation at the fab.

EDUCATION

Data Science Immersive Program, Galvanize, SAN FRANCISCO, CA 02/2018 – 05/2018

Gained knowledge in machine learning, statistics, Python, AWS, and SQL through vigorously structured curriculum.

Ph.D., Physics, University of California, Davis, CA

Dissertation: Interlayer magnetic coupling in Pd/Pd(1.2 at. % Fe) multilayers.

B.S., M.S., Physics, California State University, Fresno, CA

SKILLS

- Machine Learning: Supervised and Unsupervised Classification, Regression, Clustering, Time Series, Dimensionality Reduction, Natural Language Processing.
- Programming: Python, SQL, MongoDB, Scikit-learn, NumPy, Pandas, JMP.
- Data Analysis: Statistics, Hypothesis Testing, A/B Testing, Design of Experiments, Matplotlib.