

# Gary Wong

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## EDUCATION

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### UNIVERSITY OF HAWAII AT MANOA

*B.S. in Computer Science, May 2019*

- **GPA:** Overall - 3.2 | Major - 3.7
- **Relevant Coursework:** Database Systems, Data Visualization, Algorithms, Statistics, Machine-level & Systems Programming, Software Engineering I & II, Operating Systems, Program Structure, Mobile App Design, Security & Ethics, Java I & II, Discrete Math I & II

## SKILLS

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**Program Languages:** Python, SQL, Java, Javascript, C, C++, HTML, CSS, x86 Assembly

**Familiar Libraries:** pandas, numpy, SciKit-Learn, seaborn, plot.ly

**Second Languages:** Fluent Speech in Chinese(Teochew dialect), Intermediate in Japanese

## PROFESSIONAL EXPERIENCE

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### HAWAII PRIMARY CARE CLINIC, Honolulu, HI

*Data Analyst Intern, June 2019 - Present*

- Analyze quality measurements of clinic through health metrics supplied by various health insurances.
- Design new work flows to help clinicians improve care delivery.
- Combine data from various health insurance providers to create a dataset for clinic use.

## PROJECTS

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### CRIME INCIDENTS IN HONOLULU, HAWAII (<https://github.com/garywhi/CrimeIncidents/>)

- Used public data from data.honolulu.gov on crime incidents of Hawaii to try and build a prediction model that can predict the types of crime incidents that can occur in a certain location and time.
- Cleaned the data, dropped columns that held no useful information, separate data into multiple data frames for use in exploratory analysis using the pandas library.
- Through exploratory analysis visualized data with univariate and bivariate plots to observe the shape of the data and discover trends and patterns with matplotlib.
- Built a machine learning model using a support vector machine for classification and evaluated the model with a confusion matrix and accuracy score with a five fold cross validation with Scikit-Learn machine learning library.

### INVESTIGATING GUN VIOLENCE IN AMERICA (<https://garywhi.github.io/GunViolence/>)

- Find data that may be valuable to investing trends and correlations.
- Clean data such as removing rows where data does not make sense or does not hold a value and can't be imputed.
- Visualize the data using plotly.js library and presented findings on a video wall using SAGE2.

### CHOLERA OUTBREAK IN LONDON 1854 (<https://garywhi.github.io/Cholera/>)

- Used data of Dr. John Snow's london cholera death locations, number of cholera deaths and attacks to visualize in a modern interpretation compared to Dr. Snow's hand drawn visualizations.