

Drake Watson

Irvine, California

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Education

Tacoma Community College <i>Associate's in Mathematics</i>	Sep. 2017 – March 2020 <i>Tacoma, WA</i>
University of Washington <i>Bachelor's in Mathematics – Minor in Data Science</i>	Sep. 2020 – July 2022 <i>Seattle, WA</i>
University of California - Irvine <i>Master's in Data Science</i>	Sep. 2023 – Current <i>Irvine, CA</i>

Relevant Coursework

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|----------------------|----------------------|----------------------------|-----------------|
| • Linear Algebra | • Data Visualization | • Statistics / Probability | • Real Analysis |
| • Numerical Analysis | • Database Systems | • Data Programming | • Visual Design |

Experience

Chapman University <i>Statistical Research Programmer</i>	September 2023 – Current <i>Irvine, CA</i>
<ul style="list-style-type: none">• Harnessed python and R to perform analysis of the CURES-PDMP database provided by the DOJ in order to evaluate the current state of opioid and benzodiazepine prescriptions in California.• Worked to develop a machine learning model that would assist in the effective prescription of buprenorphine (an opioid addiction assisting drug) through a privacy-preserving algorithm.• Verified the integrity of currently deployed ML models that draw from the CURES-PDMP database in order to check the validity of widely used systems in the health care industry.	

Projects

Vaccine Scheduler <i>Python, SQL, pymssql</i>	January 2022
<ul style="list-style-type: none">• Built a vaccine scheduling application, with the database hosted on Azure, that could theoretically be deployed by clinics to manage patient interactions through the terminal.• Functionality of the application allows for patients to search for caregivers, check caregivers schedules, reserve appointments, show currently schedule appointments, and logout of the program.	
World Happiness Report <i>R, shinyapp, HTML</i>	May 2021
<ul style="list-style-type: none">• Create an interactive web application that allows users to explore the World Happiness report.• Merge together several databases containing socioeconomic and demographic data to allow for users to dig into underlying variables that may correlate with the World Happiness data.	
Video Games Sales <i>Python, scikit-learn, plotly</i>	May 2021
<ul style="list-style-type: none">• Evaluate international video game sales numbers through multiple visualization techniques in plotly.• Create a machine learning model to predict how games with certain characteristics would perform across different international markets based on the provided sales data.	

Technical Skills

Languages: Python, R, SQL
Developer Tools: VS Code, PyCharm, Tableau, RStudio, GitHub
Libraries: Pandas, scikit-learn, matplotlib, ggplot2, dplyr

Honors / Accolades

Thomas P. Bleakney Endowed Scholarship in Mathematics <i>University of Washington</i>	2022
Academic Excellence Scholarship <i>University of Washington</i>	2022