

Matthew Chung

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EDUCATION

Bachelors of Science in Informatics | University of Washington
Concentration in Data Science

June 2025c

RELEVANT EXPERIENCE

INFO 442 Teaching Assistant | University of Washington | Seattle, Washington December 2024 – March 2025

- **Fostered** a cooperative environment for six student-led groups to **develop a minimum viable product** within their chosen problem space.
- **Hosted** weekly **review sessions** on 10+ topics, including **React, Firebase, and JavaScript**.
- **Provided personalized assistance** to 30 students in various aspects of collaborative software development, **including project management, design, and coding**.

INFO 201 Teaching Assistant | University of Washington | Seattle, Washington March 2023 – December 2024

- **Led section** once a week allowing students to ask questions on lecture and **gain more one-on-one help on certain topics** leading to passing grades in all 25 students within the section.
- **Hosted weekly office hours** to help 25+ students **debug introductory R, R packages, Shiny, and Git** assignments so they can achieve passing scores (above 60%).
- **Adapted and learned varying R packages** to help student-led groups **to produce questions and research on varying topics** obtaining scores above 80% for all the projects.

TECHNICAL PROJECTS

Cyberheroes, Teaching 3rd and 4th Graders About Cybersecurity January 2024 – June 2025

- **Developed** an interactive cybersecurity education website for 3rd–4th graders using **React, JavaScript, and CSS**, emphasizing engaging UI/UX tailored for young learners.
- **Engineered** a modular content system using **relational JSON structures** to dynamically render lessons, quizzes, and transition pages based on user progression.
- Link: <https://virurep.github.io/cyberheroes/>

Happiness Vs. COVID: Comparing the Happiness Index of the Years of 2018 to 2022 March 2022 – June 2022

- **Merged and aggregated** years of Happiness data for varying countries, **based on multiple variables**, in the world from the year 2018 through 2022
- **Identified the variable of social support**, through **machine learning techniques** of decision trees, as having the most influence on the happiness score.

TECHNICAL SKILLS

Programming Languages:

Java, Python, R, Javascript, React, SQL, D3, FireBase, HTML, CSS, Flourish, Tableau

Libraries:

Pandas, Matplotlib, Plotly, SKLearn, NumPy, Seaborn

Machine Learning Techniques:

Decision Trees, Neural Networks, Naive Bayes, Regressions, SVM,

Operating Systems:

MacOS

Web Analytics Platforms:

Google Analytics