Vincent Chi

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SKILLS

- **Languages:** Python, R, SQL, C++, JavaScript, HTML/CSS, MATLAB
- **Tools:** Tableau, Snowflake, SKLearn, PyTorch, PySpark, Numpy, Pandas, MongoDB, ExpressJS, Angular, NodeJS, Linux, Git

WORK EXPERIENCE

Data Science Intern   **Jun 2021 – Aug 2021**
Wizards of the Coast   Renton, WA
- Deployed production-level data science pipeline to process data for 1 million+ daily matches from the digital card game Magic the Gathering Arena™ from Snowflake
- Designed scalable and noise resistant model for clustering and predicting player archetypes of MtG Arena's™ Draft game mode using a hybrid hierarchical clustering and rules-based approach
- Constructed and automated an interactive matchup information dashboard on player archetypes in Tableau, allowing for a 500% increase in metagame understanding and decision making efficiency by R&D

Software Engineer Intern   **Feb 2020 – Aug 2020**
Lorentz Solution   Santa Clara, CA
- Developed and integrated the UI using Python, C++, and Qt for scalable model generator functionality of Peakview™ physics modeling software to fit client specifications while adapting to customer feedback
- Overhauled the internal build system to use RPM on Linux, automated local installation of custom third party library rpms and their dependencies resulting in increased third party library build efficiency by 60%

Course Grader   **Apr 2019 – Jun 2019**
Universty of California, Los Angeles   Los Angeles, CA
- Debugged student code for Advanced Programming in C++ course, providing detailed, individualized feedback
- Wrote grading script to automate grading process and built/integrated the UI for it using PyQt

PROJECTS

Burned Tower TCG   **2020**
- Spearheaded market research and identified market trends using sales data scraped from pokemonprice.com and eBay to optimize investment and inventory acquisition strategy
- Generated over $20,000 in profits and $35,000 in unrealized gains from $20,000 initial investment pool

r/Politics Sentiment Analysis   **2019**
R, PySpark, SparkMLlib, ggplot (GitHub.com/vince702/r-politics-sentiment)
- Built text parser and tokenized 13gb of text data from user posts on reddit.com/Politics from 2016 - 2018
- Trained logistic regression model to classify comments made about Trump by sentiment using PySpark
- Visualized sentiment results by state from 2016-2018, discovering widespread negative sentiment, most severe in coastal states

EDUCATION

University of Southern California   **Expected: Dec 2022**
M.S. Computer Science (Data Science Track)
GPA: 3.9

University of California, Los Angeles   **Graduated: June 2020**
B.S. Mathematics of Computation
Major GPA: 3.80, Overall GPA: 3.75, *Cum Laude*

RELEVANT COURSEWORK

- **Computer Science:** Machine Learning, Artificial Intelligence, Natural Language Processing, Databases, Algorithms & Data Structures, Operating Systems, Web Development
- **Math/Statistics:** Regression Analysis, Experiment Design, Probability, Linear Algebra, Numeric Analysis