

JEROME WEI

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EDUCATION

University of California, Berkeley
B.A. Computer Science

2017-

SKILLS

Programming Languages	C/C++, Python, Java, Javascript
Software & Tools	Unix, PyTorch/TensorFlow, Git, AWS

RELEVANT EXPERIENCE

University of California, San Francisco
Research Data Analyst, Keiser Lab

August 2020 - January 2021

- Worked alongside contractor Slalom to deliver an environment for training melanoma stage classification models. Responsible for writing scalable and portable data preprocessing scripts, performed data analysis, and acted as a go-between Keiser Lab and Slalom.
- Trained model on pathological data.
- Ran experiments to understand robustness, effects of artifacts and blur, and interpretable results.

Lawrence Berkeley National Laboratory
Undergraduate Student Assistant

January 2019 - November 2019

- Researched novel ways to speed up and refactor EnergyPlus codebase, a building energy use simulation software. Wrote framework to test refactored methods, tracking error and memoization properties such as miss rate and hash collision rate.
- Achieved up to 300% speedup on select functions.

Computer Science Mentors
Junior Mentor, CS70 (Discrete Mathematics and Probability Theory)

January 2019 - May 2019

- Lead weekly mentoring groups for CS70. Sections focus on solidifying students' understanding of concepts covered in lecture and discussion. Prepare weekly lesson plans that provide coverage of material and cater towards individual learning styles.

SELECTED PROJECTS

GraphsViz Virtual Reality visualization of graph traversal algorithms (BFS/DFS), made in Unity C#.

ChocoPy Compiler A compiler for a statically typed dialect of Python 3, for CS164. Worked in a small group on three stages: lexer, parser, and code generator.

Fantasy Basketball Optimization Formalized fantasy basketball as nonlinear optimization problem. Tested common and novel strategies with Monte Carlo simulation.

Chess Engine A fully functional chess engine, written in C++ from scratch. Strength of 2000 ELO based on average performance against other engines.

RELEVANT COURSES

Data Structures
Discrete Math
Probability Theory
Efficient Algorithms and Intractable Problems

Linear Algebra
Multivariable Calculus
Programming Languages and Compilers
Machine Structures