

Kai E. Burkholder

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🐙 <https://github.com/Kai-Eiji>

EDUCATION

University of San Francisco

Major : Computer Science Minor : Mathematics GPA : 4.0 Expected Graduation: May 2022

RELEVANT COURSEWORK

- ❖ **CS 245 Data Structures & Algorithms** Spring 2020
Algorithm Analysis Asymptotic Calculations Algorithm Design Technics
Searching / Sorting Algorithms Trees and Graphs
- ❖ **CS 221 C and Systems** Fall 2019
Algorithms and Data Structures in C Defensive Programming in C Develop System Software in C
- ❖ **CS 315 Computer Architecture** Spring 2019
Performance improvements using hardware caches and pipelining
Software development using ARM assembly language Circuit design using logic gates.
- ❖ **MATH 371 Statistics with Applications** Spring 2020
Descriptive Statistics Data Analysis Confidence Intervals Hypothesis Tests Estimation Theory
Linear Regression Goodness-of-fit Tests Non-Parametric Tests

WORK EXPERIENCE

- ❖ **Teaching Assistant** Spring 2020
 - Teaching Assistant for CS112 Introduction to Computer Science II
- ❖ **Quality Assurance Intern at iWallet** Winter 2019
 - Detecting bugs in mobile payment system powered by iWallet

PROJECTS

- ❖ **Conway's Game of Life**
 - A web app that shows cellular automaton simulation. Created by using **React.js** and **Node.js**. Deployed by using **Amazon Web Service**. Link : <https://master.d2k2vh83ffngws.amplifyapp.com/>
- ❖ **ARM Emulator**
 - A software that emulates ARM instructions in C.
- ❖ **Movie Recommendation System**
 - A program written in **Java** that recommends movies to people based on what kind of movie they watched in the past and how they rated those movies. Used **linked list** to store all the data.

So many other projects are on my GitHub : <https://github.com/Kai-Eiji>

SKILLS

- ❖ Proficient in programming languages such as **Python, C, Java, JavaScript (and Node.js), ARM Assembly HTML and CSS**, and web frameworks such as **React.js**.

❖ Fluent in Japanese (Writing, Speaking, and Listening).

SCHOOL / COMMUNITY INVOLVEMENT

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| ❖ College of Arts and Science Deans Honor Roll | Spring 2019 - Present |
| ❖ Member – Women in Tech / Association for Computing Machinery(ACM) | Fall 2018 – Present |