Kai E. Burkholder

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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

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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

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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/

❖ **AI Tic Tac Toe**
  - A web app that allows users to play the game tic tac toe against the computer. The computer's move is
    decided by using the **minimax algorithm**. Created by using **React.js** and **Node.js**. Deployed by using
    Amazon Web Service.   Link : https://master.d1rw9gdcmsep1i.amplifyapp.com/

❖ **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

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SKILLS

- ❖ Proficient in programming languages such as **Python**, C, **Java**, **JavaScript (and Node.js)**, **HTML and CSS**, and web frameworks such as **React.js.**
- ❖ Fluent in Japanese (Writing, Speaking, and Listening).

SCHOOL / COMMUNITY INVOLVEMENT

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