Minami Yamaura

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EDUCATION

University of California, Berkeley **Expected Graduation May 2023**

B.A. - Computer Science GPA: 3.66

Relevant coursework: Data Structures, Artificial Intelligence, Discrete Math/Probability Theory, Algorithms, Web Design, Computer Architecture, Linear Algebra/Differential Equations, Multivariable Calculus

SKILLS

Coding languages & Technologies: Python, Java, C, SQL, HTML, CSS, Javascript, Git

EXPERIENCE

Software Engineering Intern | Rayann Capital **January 2021 – May 2021**

- Designed and built python calculator with Google Sheets API that automated total and unit price calculation per meal for ghost kitchen project.
- Implemented ruby-based Liquid code for customizing user delivery times, analyzing referral rate, and displaying Japanese translations.
- Administered the launch of the ghost kitchen project by leading meetings and delegating tasks between members in marketing and tech department.

Software Engineering Intern | Virufy **June 2021 – present**

- Maintaining company website and testing machine learning algorithm that detects covid through differences in respiratory patterns.

PROJECTS

Nuggets! An Avatar Game| *Java*

- Designed and created a game with a controllable avatar in a pseudo-randomly generated world using data structures and the Standard Draw API with A. Herri.
- Implemented avatar customization, teleporting, random typing games, nugget collection (winning objective), point and location display, and save/load capabilities.

Numpy in C | *C*

- Implemented basic operations and matrix functions including indexing and slicing from Numpy entirely in C.
- Optimizations such as loop unrolling and thread-level parallelism achieved speedup of 712x (power operation) from naïve C.

Pacman Solver | *Python*

- Developed a PACMAN Solver using algorithms based on Markov Decision Processes.
- Used Value iteration, Policy iteration, Q-Learning, Feature-based learning, and built a convolutional neural network with unique non-linearities and optimal parameters.

CPU Simulator

- Designed and built a fully functional CPU model using Logisim, a class provided visual simulation tool.
- Used control logic, bit manipulation, and wiring with logic gates to achieve 38 instructions covering all six types of RISC-V instructions.

EXTRACURRICULARS

Social Chair, Finance Chair | Cal Japan Club **January 2021 - Present**

- Manage social team that designs and executes interactive events for UC Berkeley and Bay Area students who have a Japanese background or are interested in Japanese culture
- Facilitate transactions and oversee budget planning for club expenses through programming custom functions on Google Sheets