

Sahil Railkar

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Education

University of California, Irvine

Expected Graduation Date: December 2021

B.S. Computer Science | Donald Bren School of Information and Computer Sciences; GPA: 3.733

Relevant Coursework: Python Programming with Libraries, Intermediate Programming, Boolean Algebra and Logic, Discrete Mathematics for Computer Science, Introduction to C++, Computational Linear Algebra

Work Experience

Calit2 – University of California, Irvine

Irvine, CA

Undergraduate Researcher | Department of Informatics

January 2019 - Present

- Designed and developed the user interface and game logic of an online participatory simulation
- Implemented autonomous agents into the simulation for the automation of individualized decisions
- Writing sections examining my implementation of components from the simulation in a research paper

Hack at UCI

Irvine, CA

General Logistics Organizer

April 2019 - Present

- Aiding with the planning and management of Hack at UCI's main events – ZotHacks and HackUCI
- Maintaining organization through the Hack team's folders, spreadsheets, and documents

Brighter Future Learning Center

San Jose, CA

Mathematics Tutor

August 2017 - January 2018

- Supervised and mentored a group of students ranging up to high schoolers
- Guided math lessons on topics varying from algebra and statistics to AP Calculus BC
- Assisted students with the comprehension of materials brought in from school

Projects

Conway's Game of Life GUI

July 2018

- Built a GUI using Python's built-in tkinter interface which demonstrates Conway's Game of Life
- Employed the model-view-controller design pattern for an organized approach to the problem

Recollect

October 2017

- Collaborated with two students in building an application to help Alzheimer's patients with their memory
- Designed a simple user interface for the application to make it more intuitive for Alzheimer's patients
- Integrated the AWS Rekognition API with ARKit to develop the object recognition feature

Awards

Congressional App Challenge – Recognized by U.S. House of Representatives member Ro Khanna for app, Recollect, which helps Alzheimer's patients preserve their past

Skills & Interests

Languages: Proficient in Python, C++, Java, Javascript, HTML, CSS; familiar with Swift, MATLAB, SQL

Libraries: Experienced with React, jQuery, JavaFX; familiar with sci-kit learn, NumPy, Pandas

Experienced with Git, Node.js, Flask; familiar with Data Structures and Algorithms

Organizations: Hack at UCI, ACM @ UCI, Artificial Intelligence @ UCI