

# Sara Rutherford

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## EDUCATION

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### California State University Fullerton

Aug. 2019 – Dec. 2022

*BS Computer Science GPA: 3.4*

**Relevant Coursework:** Data structures, Algorithms, Python, C++, C, Java, Web Front-end Engineering, Operating Systems, Intro to Computer Security, Artificial Intelligence, Software Engineering, Software Design, Software Testing, Computer System Architecture, Mobile Device Programming (Android), Databases, Cloud Computing & Security, Computer Communications, Statistics Applied to Natural Sciences, Discrete Mathematics, Calculus.

## SKILLS

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**Languages:** C++, Python, Javascript, HTML/CSS, PHP, SQL, Kotlin

**Frameworks:** React, jQuery, Selenium, Bootstrap

**Developer Tools:** VS Code, Visual Studio, Git, GitLab, Visual Paradigm, IntelliJ IDEA, Atom, Linux, Android Studio, Arduino

## PROJECTS

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### Aromatherapy Ecommerce

Jan. 2021 – May 2021

*CSUF Software Engineering group project | HTML/CSS, Hack, jQuery, PHP, MySQL*

- Implemented shopping cart and MySQL database for an aromatherapy ecommerce project.
- Responsible for organization, implementation, and sprint demonstrations.
- Assisted team members who struggled with unfamiliar technology and integrated their code with back end.

### Cat Café Board Game

Aug. 2021 – Oct. 2021

*CSUF Software Design project | C++, Visual Paradigm*

- Designed game rules and overall game concept.
- Developed C++ code for proof of concept.
- Documented sequence diagram and class diagram in Visual Paradigm.

### Pac-Man AI Simulation

Sept. 2021 – Dec. 2021

*CSUF Artificial Intelligence group project | Python*

- Lead group project, applying AI principles to a Pac-Man simulation.
- Incorporated the search algorithms: Breadth-First Search, Depth-First Search, and A-Star Search to examine Pac-Man's efficiency and performance in reaching the goal.

### Arduino Project

Mar. 2022 – May 2022

*CSUF Computer System Architecture group project | C++, Arduino IDE*

- Contributed C++ code on Arduino IDE to display different patterns of LED lights onto an Arduino UNO microcontroller board.
- Simplified teammate's code using nested void functions.

## WORK EXPERIENCE

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### Irvine University Park Library

Oct. 2015 – Dec. 2016

*Library Page*

*Irvine, CA*

- Organized and shelved library materials, satisfied hold requests, assisted visitors.
- Volunteered Aug. 2013 – Oct. 2015.

## AWARDS

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USA Water Polo Academic All-American 2012-2013

California State University Fullerton Dean's Honors List Fall 2021, Spring 2022