

# AARON BRIER

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## EDUCATION

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**University of California, Irvine**

*Sept. 2018 - June 2022*

B.S. in Computer Science

3.97 of 4.0 GPA

### Relevant Coursework

Data Structures & Algorithms, Design and Analysis of Algorithms, Operating Systems, Computer Organization, Principles in System Design, Computer and Network Security, Intro to Artificial Intelligence, Intro to Databases, Probability and Statistics, Boolean Logic and Discrete Math

## EXPERIENCE

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**Paciolan** | Irvine, CA

*Jan. 2021 - Present*

Student Member / Software Development Intern

- Capstone project by UCI, sponsored by Paciolan
- Working on backend team to build a contactless payment system for ticket sales
- Creating a REST API written in Java, that communicates with Redis database
- AWS Lambda, Java, Redis

**ACM at UCI** | Irvine, CA

*Apr. 2019 - Present*

Member, Competitor

- Participate in discussions on data structures and algorithms twice a week
- Ranked 13<sup>th</sup> in ICPC qualifier
- Moved on to Southern California Regionals, competing on Feb. 27

**Donald Brenn School of ICS** | Irvine, CA

*Jan. 2020 - Mar. 2020*

Lab Tutor

- Tutored over 30 students in programming with Python. Taught object oriented programming, using third party libraries, and using web APIs
- Met 3 times per week, 80+ minutes per meeting

## PROJECTS

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**Minesweeper AI** | Python

- Created a program to solve randomly generated minesweeper boards
- 80%+ success rate on 16x16 boards with 40 bombs

**Reddit Web Scraper** | Python

- Created a program that searches through comments posted on Reddit.com to find the overall sentiment Reddit users have on publicly traded companies
- Utilizes Python Reddit API Wrapper (PRAW) and Textblob API for natural language processing

**Multi-client chat server** | C

- Built a chat server that supports chat rooms with multiple users, as well as private messaging between users
- Utilizes threads and locking mechanisms to support concurrency between connected users

## TECHNICAL SKILLS

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**Languages:** Python, C++, C, HTML/CSS, SQL

**Tools:** Git

**Operating Systems:** Windows, GNU/Linux, MacOS