# AARON BRIER

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## EDUCATION

**University of California, Irvine** | Irvine, CA *Sept. 2018 - June 2022*
B.S. in Computer Science
3.97 Cumulative 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

**Extracurriculars**
Association for Computing Machinery (ACM)
- Participate in technical talks and tutorials on data structures and algorithms twice a week

## EXPERIENCE

**Donald Brenn School of ICS Lab Tutor** | Irvine, CA *Jan. 2020 - Mar. 2020*
- Helped run open lab section for programming in Python
- Tutored 20-30 students, 3 times per week, 80+ minutes per meeting
- Answered student inquiries and helped students complete Python programming coursework
- Taught programming concepts such as recursion, object oriented programming, using third party libraries, and using web APIs

## PROJECTS

**Minesweeper AI** | Python
- Created a program to solve randomly generated 8x8, 16x16, and 16x30 minesweeper boards
- Approached as a constraint satisfaction problem, and implemented a combination of probabilistic logic and non-probabilistic logic to achieve 80%+ success rate on beginner and medium worlds (16x16 tiles or smaller, 40 bombs or less), and 40% success on expert worlds (16x30 tiles, 99 bombs)

**Reddit Web Scraper** | Python
- Created a program that scraps comments posted on Reddit.com to find the overall sentiment Reddit has on publicly traded companies. The program specifically targets reddit.com/r/wallstreetbets
- Utilizes Python Reddit API Wrapper (PRAW) and Textblob API for natural language processing

## TECHNICAL SKILLS

**Languages:** Python, C++, C, Javascript, HTML/CSS, SQL
**Tools:** Git
**Operating Systems:** Windows, GNU/Linux, MacOS