Aaron Brier

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Education

University of California, Irvine Sep. 2018 - June. 2022

Bachelor of Science in Computer Science

- GPA: 3.97 of 4.0
- Relevant courses: Data Structures, Design / Analysis of Algorithms, Operating Systems, Probability and Statistics, Artificial Intelligence, ML/Data Mining, Databases, Cybersecurity

Technical Skills

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

Experience

Student Member / Software Development Intern | Paciolan Jan. 2020 - Present

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

Lab Tutor | UCI Donald Bren School of ICS Jan. 2020 - Mar. 2020

- Tutored over 30 students in programming with Python, data structures and algorithms
- Managed open lab sessions
- Worked with professors to effectively communicate technical concepts to students
- Met 3 times per week, 80+ minutes per meeting

Projects

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

Extracurriculars

Association of Computing Machinery (ACM) | University of California, Irvine Apr. 2019 - Present

Member, Competitor

- Participate in discussions on data structures and algorithms twice a week
- Ranked 13th in ACM ICPC Qualifier using Python
- Moved on to Southern California Regionals, competing on Feb. 27