Brian Bulgarelli

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EDUCATION

- **University of California, Irvine** — Irvine, CA
  B.S. Computer Science, Specialization in Human-Computer Interaction; GPA: 3.55 — *September 2019 - June 2023*
- **Awards and Recognition**: Chancellor's Excellence Scholarship, Dean's Honor List
- **Relevant Coursework**: Data Structures and Algorithms, Requirements Engineering, Software Design, Project in Databases and Web Applications, NoSQL Databases, Software Testing and Quality Assurance

EXPERIENCE

- **Federal Reserve Bank of San Francisco** — San Francisco, CA
  Advanced Data Analytics Capabilities Intern — *May 2021 - September 2021*
  - Independently programmed and conducted data cleaning and analysis using Python and R.
  - Measured the impact of the Covid-19 pandemic on employee CO_2 emissions and modeled results among various hybrid work week options
  - Used Python and AWS databases to implement automated data collection and analysis. Created data charts with Tableau to identify errors with machines, saving an estimated 5 hours per week.

- **UCI School Of Information and Computer Sciences** — Irvine, CA
  Peer Academic Advisor — *March 2021 - Present*
  - Counseling undergraduate students on major selection, class scheduling, providing information to students regarding program curriculum and policies.
  - Serving as a liaison between administrative personnel, faculty, and students in resolving academic advising concerns or problems; referring students for different courses and programs, as needed.

LEADERSHIP

- **Information and Computer Science Student Council** — Irvine, CA
  Academic and Alumni Affairs Committee Lead — *November 2020 - Present*
  - Working with other committee members in order to plan academic outreach events and collaborate with alumni to connect with the UCI ICS student population.
  - Connecting with various Professors in order to address student concerns, organizing workshops for professional and social development and providing additional educational resources for hundreds of students.

PROJECTS

- **CS 122B: FabFlix Movie Catalog**
  Fullstack Developer
  - Built a full-stack web application, similar to IMDB, allowing users to search for movies, display movie information and batch load movie data information via XML files
  - Developed an Android app for the web application, maintaining the same functionality across platforms
  - **Technologies used**: HTML, JavaScript, CSS, Java, Apache Tomcat, MySQL, AWS
- **CS 125: ICS Search Engine**
  Backend Developer
  - Implemented a web crawler to crawl the UCI ICS web domain and collect relevant web pages.
  - Created a search engine with a user interface to search for websites collected while crawling. Optimized the general search by reducing the time from 15 ms to 5 ms, thereby improving user experience.
  - **Technologies used**: Python

PROGRAMMING SKILLS

- **Languages**: Python, Java, C++, SQL, Javascript, HTML, CSS   **Frameworks**: React, Angular