

Troy Good

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EDUCATION

- **University of California, Irvine** Jun. 2022
B.S. in Computer Science — Minor in Statistics — Specialization in Intelligent Systems 3.8 GPA
 - **Relevant Coursework**
Data Structures and Algorithms, Intro to Artificial Intelligence, Software Engineering, Programming with Software Libraries, Principles in System Design, Computer Organization, Boolean Logic and Discrete Structures, Linear Algebra, Probability and Statistics for CS, Statistical Methods for Data Analysis I-II

PROGRAMMING SKILLS

- **Languages:** Python, C++, C, Swift, R **Technologies/Tools:** Git, Unity, Xcode

EXPERIENCE

- **Libra**
Software Developer Jul. 2020 - Sep. 2020
 - Libra is an open-source API designed to automate the machine learning process
 - Implemented a feature image graph that shows stage-by-stage image representations for a convolutional neural network
- **CodePath**
iOS Developer Mar. 2020 - Jun. 2020
 - Project-focused iOS development using Swift and Xcode
 - Created a variety of applications including Instagram and Twitter clones

PROJECTS

- **ChessAI (Python, Pygame)**
 - A singleplayer chess game created from scratch
 - Implemented AI opponent using minimax algorithm along with alpha-beta pruning for increased speed
 - Utilized multi-threading so that display updates while AI determines move
 - Published a YouTube video explaining minimax algorithm and code for the AI
- **BlockRunnerAI (C#, Unity)**
 - Created a 3D blockrunner game in Unity
 - Trained an AI to play using Unity's Machine Learning Agents Toolkit
 - Published a YouTube video explaining reinforcement learning and code for ML Agents
- **ChatUCI (Swift, Xcode)**
 - An iOS application that allows UCI students to communicate with one another via course-specific chatrooms
 - Developed in an agile scrum team with an emphasis on incremental development
 - Handled user login and stored chatroom data using a Parse Server which utilized an underlying Mongo database
 - Pulled course data directly from the UCI website using web scraping and HTML parsing

ACTIVITIES/SOCIETIES

- **Artificial Intelligence at UCI**
Lead Mentor May 2020 - present
 - A nonprofit student-run organization that focuses on promoting and cultivating the discipline of artificial intelligence and machine learning and its applications among the UCI community
 - Manage a team of mentors to deliver high-quality workshops on projects related to AI
 - Organize regular meetings with mentors and club executives
- **Campuswide Honors Collegium**
Member Feb. 2020 - present
 - A highly selective academic program that comprises only 3% of UCI's undergraduate population
 - Enrolled in rigorous academic curriculum taught by leading faculty