

Henry Bar-Or

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

JUNE 2025

BACHELOR OF SCIENCE, SOFTWARE ENGINEERING

GPA 3.18

COURSEWORK

- Data Structure Implementation & Analysis
- Software Design: Structures & Implementation
- User Interaction Software
- Information Retrieval

SKILLS

- **LANGUAGES:** C++, Rust, Python, Java, Javascript, x86 Assembly
- **TOOLS/Frameworks:** HTML, CSS, Svelte, Wordpress, DigitalOcean, IDA Pro, Cheat Engine
- **LIBRARIES:** SDL2, Piper-RS, Whisper, Google Cloud API, ImGui

PROFESSIONAL EXPERIENCE

THE LIGHT BRIGADE LLC | WEBMASTER/AUDIO ENGINEER

APRIL 2020 - PRESENT | REMOTE

- Create and manage pillarsofwealth.com using Wordpress, CSS/HTML5, JS, and DigitalOcean to host.
- Edit audio files used for audiobook containing site content hosted on Audible.

PROJECTS

Speech-to-Text/Text-to-Speech

JAN 2025

- Created a web application using the Svelte framework and Rust back-end to convert speech to text and text to speech. Used piper-rs for text-to-speech and whisper models for speech-to-text.

Eyewi

DEC 2024

- Created an instant replay application for action sports designed to capture, manage, and display video feeds. These feeds can be saved locally or uploaded to Google Drive using the Google Cloud API. The app runs on Windows, Mac, and Linux including Raspberry Pi. Software is used at a local business with expansion planned.

Tile Matching Game Engine

MARCH 2024

- Collaborated with an in-class group to create a game engine for tile-based games in Java. The singular engine was abstracted to run tetris and bejeweled games. Contributions included integrating the tetris game engine into the abstraction layer as well as engine design documentation. Project resulted in an A grade.

Perfect Storm

AUG 2020

- Led a team of programmers to create a mod of Naruto Storm 4 adding new content and fixing bugs. Reverse engineered x86 binary without any source code, using x86 Assembly, and C++, resulting in millions of views with international showcase.

ACTIVITIES

TAEKWONDO | 3RD DEGREE BLACK BELT

SEPT 2018-PRESENT | ELLICOTT CITY, MD / IRVINE, CA

- National Champion | 1st place at National Collegiate Taekwondo Association Nationals for Board Breaking in the Black Belt Division (2024)
- Taekwondo/Summer Camp Instructor (Sept 2018 - Aug 2022)

CA TRICKING DEMO TEAM | PERFORMANCE COORDINATOR

OCT 2024-PRESENT | ORANGE COUNTY, CA

- Organize performances with a team of martial arts trickers in our local community.
- Emcee, communicate with event staff, and coordinate on-site so that events run smoothly.
- Performed for audiences of up to 500: Orange County Japan Fair and Anime Expo Chibi.

UCI JAZZ BAND | TROMBONE SECTION LEADER

JAN 2022-JUNE 2024 | IRVINE, CA

- Coordinated schedules, led weekly practices, and organized/hosted band-wide social events.