

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
- Design & Analysis of Algorithms
- User Interaction Software
- Software Design: Structures & Implementation
- Information Retrieval
- Computer Networks

SKILLS

- **LANGUAGES:** C++, Python, Java, Javascript, Typescript, Rust, C, x86 Assembly
- **TOOLS/Frameworks:** VS Code, Cursor, 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

- Established and maintain pillarsofwealth.com, a finance education website for medical professionals using Wordpress, CSS/HTML5, JS, and DigitalOcean to host.
- Edited audio files using audacity used for audiobook containing site content hosted on Audible.

PROJECTS

Speech-to-Text/Text-to-Speech

DEC 2024-JAN 2025

- Implemented 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

NOV-DEC 2024

- Created an instant replay application for athletes with Python designed to capture, manage and display videos.
- Feeds are saved locally or uploaded to Google Drive using the Google Cloud API.
- Runs on Windows, Mac, and Linux including Raspberry Pi.
- Currently used at a local business with expansion planned.

Tile Matching Game Engine

MARCH-MAY 2023

- Collaborated with a team of 5 to create an engine for tile-based games, such as Tetris and Bejeweled, in Java.
- Integrated the game engine into the abstraction layer and authored engine design documentation.

Perfect Storm

AUG 2020-AUG 2021

- Led a team of 3 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/C++.
- Mod received 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.