

# Benjamin Hinchliff

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## Education

California Polytechnic State University, San Luis Obispo (Cal Poly)

**Bachelor of Science Degree in Computer Science**

2024-2025

GPA: 3.79 (President's Honors List)

## Skills

**Programming Languages:** Python, HTML, (S)CSS, JS (& TS), PHP, WASM; Java, C, C++, Rust, Zig, Assembly (x86, x86\_64, arm64)

**Web Frameworks:** React, Vue, Angular, jQuery, & Svelte

**Databases:** SQL (mySQL, PostgreSQL), MongoDB

**Applications:** VSCode, Visual Studio, (Neo)Vim, Microsoft Office / LibreOffice

**Application Development:** Familiarity with Windows API, GTK+, QT, WxWidgets, FLTK, Linux/Unix

**Paradigms:** OOP & Data Driven Programming

## Computer Science Experience

**Full-stack Software Developer** - Versational ([versational.ai](https://versational.ai)) (40 hrs/wk)

June – Sept. 2021

Technologies used: Next.js (React), AWS, Redux, AssemblyAI

- Created dashboard for the consumer analytics platform Versational
- Built platform integration with AssemblyAI transcription API, front-end and back-end
- Connected speakers to user accounts
- Integrated the machine learning (“Gems”) identification models into the platform and dashboard
- Fixed bugs throughout the platform, such as credential leakage to the frontend

**Software Developer** - VenAdvisory ([venadvisory.com](https://venadvisory.com)) (40 hrs/wk)

June – Sept. 2020

Technologies Used: WordPress (PHP), HTML, CSS, JS

- Built WordPress (PHP) front-end and back-end to create new transcripts for customer analysis
- Identified & fixed security issues including XSS & SQL Injection
- Gained professional experience working with an offshore development team

## Other Related Experience

- Advise & maintain websites for East Bay businesses, e.g. Ristorante Amoroma ([amoroma1.com](https://amoroma1.com))
- Tech consultancy for home community: high school, scouts, friends and family

## Programming Projects Examples

Full (uncurated) list at <https://benjaminhinchliff.com/projects>

**Raytracer** - <https://github.com/BenjaminHinchliff/raytracer>

Technologies Used: C11, Meson

- Multithreaded, SIMD optimized raytracer written in pure C with model loading

**Portfolio Website** - <https://benjaminhinchliff.com>

Technologies Used: Svelte(kit), SSR, HTML, SCSS, TS, JS, GraphQL, Vite

- Uses SSR and caching techniques to (optionally) work without JS
- Compact, using a production framework and a real build system

**Dungeonator** - demo: <https://benjaminhinchliff.github.io/dungeonator-demo>

Technologies Used: C99, CMake, C++ & Catch2 (for tests), doxygen (for docs)

- Core code written entirely in standards-compliant C99
- Fully documented: <https://benjaminhinchliff.github.io/dungeonator>

## Leadership and Campus Involvement

**Student Campus Computing Committee (SC3)** - Department of Computer Science Representative

- Advise the committee on Cal Poly technology use from a student perspective

**Solar Regatta Club** - Co-developer

- Collaborating to determine technical specifications and creating the software side (MicroPython) of the boat used in the California Solar Regatta competition

**Cal Poly Linux Users Group (CPLUG)** - Member

- Advocate and enable Linux usage and support at Cal Poly