

HENRY BEVERIDGE

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GitHub: <https://github.com/illuminate-dev>

EDUCATION

North Hollywood High School

2027

Highly Gifted Magnet

Relevant Coursework: AP Computer Science A (5), AP Physics C: Mechanics, AP Physics C: E&M

Current GPA: 4.67

SKILLS

| | |
|------------------|--|
| Languages | Rust, Python, Java, C, C++, C#, JavaScript, HTML, CSS, SQL, SML, Racket, Ruby, Lua, \LaTeX |
| Tools | Git/GitHub, Vim, Huggingface, Linux, SQLite, PostgreSQL, Docker, Vercel, AWS, Shuttle |
| Libraries | Leptos (Rust), Tauri (Rust), Burn (Rust), Axum (Rust), NumPy, Matplotlib, Tensorflow, PyTorch, NextJS, React |

PROJECTS

Qircuit

January 2025 - Present

<https://github.com/Illuminate-dev/qircuit>

- Developed a quantum computing simulator in Rust that visualizes quantum gates and operations.
- Implemented linear algebra computations for quantum state evolution.
- Created proof-of-concept for Grover's algorithm (quantum search algorithm).

RetinaVue

November - December 2025

- Built a deep learning model using TensorFlow to detect diabetic retinopathy from retinal images.
- Achieved 97% accuracy by training on a dataset of medical images.
- Developed a desktop app using Tauri and Leptos.

The Magnolia Street Journal

July - October 2024

<http://themsj.org>

- Created a full-stack web platform for publishing news articles with a content management system.
- Developed the backend using Axum with SQLite for data storage.
- Implemented frontend using a custom-built template system for HTML and CSS.

EXTRACIRRICULARS

USA Computing Olympiad Club

August 2024 - Present

President

- Led weekly training sessions to help students improve competitive programming skills.
- Prepared members for regional coding competitions.
- Achieved **USACO Gold** ranking.

CyberPatriots

2023 - Present

- Secured systems in national cybersecurity competitions, focusing on Windows hardening.
- Ranked among the top 20 teams in the country.