

IAN DRAVES

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EDUCATION

Bachelor of Arts in Computer Science, University of Colorado Boulder

May 2025

GPA: 3.95 — Relevant courses: Data Structures, Computer Systems, Discrete Math

EXPERIENCE

Software Developer

Feb 2022 — Present

Blueprint Boulder

Boulder, CO

- Used React Native to successfully build and deploy a hotline app for the Colorado Immigrant Rights Coalition.
- Added multi-language support with i18n library, allowing for quick translation between English and Spanish.
- Implemented the Public Resource page from a Figma wire-frame, creating various custom React components.

PROJECTS

ML Stock Predictor (Python, finnhub API, Yahoo Finance API, pandas, numpy, h2o)

[GitHub](#)

- Used publicly available SEC Form 4 insider trading data to train a GBM model to predict stock movements.
- Collected over 10 months of insider trading and stock price data with the finnhub and Yahoo Finance APIs.
- Cleaned data using pandas and numpy, feeding the resulting dataset into multiple models to forecast prices.
- Successfully achieved prediction confidence rates of over 95%, suggesting a strong correlation between insider trades and future prices.

Social Media Dashboard (React, Sortable.js)

[GitHub](#)

- Created a responsive social media dashboard, using React and vanilla CSS for dynamic and styled components.
- Implemented light and dark color themes, using localStorage to make the selected color theme persistent.
- Made dashboard interactive with Sortable.js for draggable components and CSS animations for two-sided cards.

Note Taker for Debate (JavaScript, HTML, CSS, UIKit)

[GitHub](#)

- Created speed focused note taker for competitive debate using vanilla JavaScript.
- Used UIKit for modern, minimal, and focused component design and web-page animations.
- Implemented keybindings as a primary way of interacting with the web app for efficient end-user control.

Wikipedia Degrees of Separation Calculator (Python, Wikipedia API)

[GitHub](#)

- Created a script to calculate the degrees of separation between any two Wikipedia pages in real-time.
- Optimized real-time search with multi-directional concurrency using Python's concurrency module.
- Crawled and searched for Wikipedia pages using Wikipedia's Python API.

Implicit Bias Deliberate Re-association Engine (JavaScript, HTML, CSS, UIKit)

[GitHub](#)

- Created a re-association web app in JavaScript inspired by Harvard's "Weapons" Implicit Association Test.
- Implemented modern and responsive user interface with UIKit for an intuitive user experience.
- Successfully created complex interactivity without HTML5 Canvas and deployed the site to GitHub pages.

SKILLS

Languages

JavaScript (proficient), Python (proficient), C++ (proficient), Go (familiar), Rust (familiar)

Tech/Concepts

React, Node.js, Bootstrap, UIKit, Linux, Git, GitHub, Data Structures, Algorithms, OOP