

JEFF HUANG

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EDUCATION

Oregon State University

Corvallis, OR

Bachelor of Science in Computer Science — GPA: 3.69

September 2020 - Expected June 2024

- Clubs & Activities: CTF League, Linux Users Group (WebMaster), Security Club, App Dev Club

EXPERIENCE

Oregon State University Sustainability Office | *Vue.js, Node.js, AWS, Docker, SQL*

Dec 2022 - Present

Software Engineer Intern

[🔗/OSU-Sustainability-Office](#)

- Improved mobile device accessibility for OSU Sustainability Office's [Energy Dashboard](#) website by using CSS Media Queries to adjust styling based on screen dimensions
- Developed a client-side data visualization interface for comparing data across multiple time periods using Vue.js, Chart.js, and Vuex, making it easier to identify energy trends over time
- Deployed a containerized Node.js script via AWS ECR and Cloudwatch to check for meter outages daily and send alert emails, leading to greatly reduced downtime
- [Created a wiki](#) via Docusaurus to consolidate documentation from the office's various repos in one place, saving 40+ hours of labor when onboarding / mentoring new interns

UnitedHealth Group (Optum) | *React, Typescript, Java Spring Boot, Azure Cosmos DB*

June - Aug 2023

Software Engineer Intern

Irvine, CA

- Implemented search functionality for an internal website at Optum that keeps track of AI models
- Developed various frontend components using React, including search bar, filter checkboxes, and results page
- Used React Redux and Typescript interfaces to handle complex React state interactions between the search bar input, search filters, and query strings to send to the Java backend
- Wrote unit tests for frontend components using Storybook library, ensuring accessibility and good styling

PROJECTS

Golf Drill Mobile App | *React Native, Expo Router, TanStack, Firebase*

[🔗/Golf-Drill-Challenge-App/Golf-App](#)

- Developed a React Native cross-platform mobile app to improve data analytics and team management options for the OSU Men's Golf Team
- Ensured smooth and secure account management by using Google Firebase for user authentication, and React Context provider to track / redirect users based on login state
- Used TanStack Query to handle the caching of GET requests to Firestore, data refetching, and offline state persistence, ensuring a good balance between performance and data freshness

Hitman Milliseconds Bot | *JavaScript, discord.js, Railway*

[🔗/solderq35/timmy-mk-3](#)

- Built a JavaScript Discord bot to calculate Hitman 3 level completion times to the millisecond based on the player's in-game score, with up to 20 active users
- In case of rounding errors (due to additional hidden decimals in the game's scoring system), a debug command is provided to show the margin of error and formula behind each calculation
- Used both as a practice aid and as a tiebreaker tool for [the official speedrun leaderboards](#)

SKILLS

Languages

Javascript, Python, C, C++, x86 Assembly, HTML, CSS, SQL, Dart

Frameworks

React.js, Node.js, Flutter, Vue.js, Next.js, Puppeteer.js

Misc. Tools

Github Actions, Git, Docker, AWS (RDS, SAM, EC2, Cloudwatch, S3, etc)