JEFF HUANG

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EDUCATION

Oregon State University   Corvallis, OR
Bachelor of Science in Computer Science — GPA: 3.69   *2020 - 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 (deployed via Railway) to calculate Hitman 3 level completion times to the nearest millisecond, based on the player's in-game score
- 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 leaderboards, with up to 20 active users

SKILLS

Languages	Javascript, Python, C, C++, x86 Assembly, HTML, CSS, SQL, Dart
Frameworks	React.js, React Native, Expo Router, Vue.js, Next.js, Node.js, Flutter, Puppeteer.js
Misc. Tools	Github Actions, Git, Docker, TanStack, Google Firebase, AWS (RDS, ECR, Cloudwatch, etc)