

JEFF HUANG

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EDUCATION

Oregon State University

Corvallis, OR

Bachelor of Science in Computer Science — GPA: 3.71

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 (RDS, SAM)*

Dec 2022 - Present

Student Software Engineer

github.com/OSU-Sustainability-Office

- Created a building name search / energy filter system for OSU's [Energy Dashboard](#) using Vue.js and Vuex, allowing users to more efficiently pinpoint energy usage of specific buildings on campus
- Implemented an email alert system via AWS SNS to automatically detect energy meter outages and data upload errors en route to the database, greatly improving site reliability
- Deployed PuppeteerJS web scrapers on AWS ECS to securely extract OSU energy data from third-party vendor websites and upload the data to the Energy Dashboard's SQL database for ease of access
- Oversaw transition of CI pipeline from TravisCI to Github Actions due to limited resources / funding, saving an estimated 10% costs to OSU Sustainability Office monthly

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

TalkToBeavs (Social Media) | *MongoDB, Express.js, React.js, Node.js*

github.com/Nyumat/TalkToBeavs

- Deployed a full stack Giphy API integration feature for TalkToBeavs social media, allowing users to pick a GIF either a "trending" GIF, or search for a specific GIF by topic
- Improved UX by adding loading spinners where needed to account for asynchronous Redux / MongoDB updates
- Modeled database schema using Object Relational Mappers for MongoDB providing robust querying while also preventing SQL injection

HitRuns Records Bot | *Python, discord.py*

github.com/solderq35/hitruns-records-bot

- Developed a custom Python Discord bot to track Hitman 3 speedrunning statistics via the speedrun.com API
- Features useful statistics not supported by the official speedrun.com site, including listing untied vs tied world records, sorting records chronologically, and sums of bests for full game categories
- The bot's added statistics allows Hitman 3 speedrunners to easily find long-standing world records to beat, and to theorize how to make improvements in full game runs

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)