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Jonathan Beaubien

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Employment

Software Engineer, Temp (rehired) **University of Washington I.T.** **May 2022 - September 2022**

UW Course Dashboards

- Created reusable, modern Vue 3 components to encapsulate course logic and improve UX for professors—with modern JavaScript (ES6+).
- Configured vite build tool to bundle and minify bundle sizes using PostCSS.
- Wrote and maintained 2 separate Django REST framework APIs to communicate with a MySQL database.

Software Engineer, Student **University of Washington I.T.** **July 2020 - May 2022**

MyUW / Foodalert / Scout

- Decreased load times by **10X** by implementing asynchronous background tasks and configured REST API caching.
- Modernized the student portal to use Vue and Vuex for state management resulting in faster feature development, increased unit tests with Jest and Cypress (30%), simplified code debugging, and increased refactorability.
- Collaborated with co-workers during sprint planning and code reviews in an agile environment—tracking changes in JIRA.
- Developed and updated Docker and docker-compose files to improve the CI/CD pipeline.

Education

Seattle, WA **University of Washington** **September 2018 – August 2022**

- B.S. in **Applied and Computational Mathematical Sciences** with a concentration in Scientific Computing and Numerical Algorithms, August 2022. GPA: 3.6.
- Undergraduate Coursework: Data Structures and Algorithms; Databases (SQL and NoSQL); Computer Science I and II (Java); Applied Mathematics (Python, MATLAB); Real Analysis; Linear Algebra; Computational Methods for Data Analysis; Scientific Computing.
    - Applied Math Portfolio: https://github.com/j0pp/AMATH-Papers

Technical Experience

Projects

- **Word Trio (wordtrio.com)** (2022). Built a Wordle-type game using React and Tailwind CSS which garnered >2,000 visitors. Implemented a small Firebase backend to handle aggregating anonymous puzzle data and used local storage.
- **Class-ify (DubHacks)** (2021). Created a web-app that aggregates data for 100+ UW courses including a RateMyProfessors API, Reddit comments/posts, and past quarter Syllabi to help inform students about CSE classes at UW using NodeJS, Express, and React.
- **djdemocracy.com** (2022). Developed a real-time collaborative Spotify queue maker with a SocketIO, Express, and PostgreSQL with a VueJS frontend. Used the Spotify Web API to authenticate users with OAuth2.

Languages and Technologies

- JavaScript: VueJS, NodeJS, Express, SocketIO; Python: Django, NumPy; Java; MATLAB; SQL, MongoDB; Tailwind CSS, Bootstrap;
- Docker; JIRA; git, GitHub;

GitHub | LinkedIn | Personal Website