Jesse Leung

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Employment

Software Engineer

- Rhythm Game (Start, Proto, Alpha) | C#, Unity, UniRX, DOTween
 - Designed and implemented the input system, event manager, and score manager to calculate and broadcast information about score, tap timing, and other core game functionality.
 - Designed and built the song layout functionality to visually represent a song's Json data.
 - Adapted a Midi to Json converter which translated song files from the audio team into gameusable data.

Mobile Suit Gundam | C#, Unity, UniRX, DOTween

- Built and implemented both complex in-game calculations and UI for PVP and user-deck related scenes including ranking, battle results, and deck edit menus.
- Refactored and streamlined bloated models and presenters (**MVP Pattern**) to make them reusable and maintainable.

Otakon (and sibling sites) | Ruby on Rails, JQuery, PostgreSQL

- Designed and built a responsive, mobile friendly version of the admin dashboard
- Reduced the loading time of a heavy admin page by over 30s by identifying slow SQL queries then restructuring database tables and restructuring client-side JavaScript.
- Wrote a script to convert user IDs and profile picture file names to random slugs to hide backend data from other users

Personal Projects

- Locality sensitive hashing (in progress) | Rust, Redis github.com/lesseLeung97/lsh
 - An implementation of locality sensitive hashing to determine a selection of well fitting matches for Otakon users.
- gatsbycsstypes | TypeScript, NodeJS, npm

github.com/JesseLeung97/gatsbycsstypes

- An npm package to continuously find, parse, then generate TypeScript definition files for CSS Modules when using Gatsby JS.
- endureandsurvive.io | Preact, TypeScript, Vite, AWS

github.com/JesseLeung97/tlou-countdown

 An animated countdown to The Last of Us Part I with a filterable collection of preorder links hosted on AWS S3 with Cloudfront.

Education

Amherst, MA

University of Massachusetts Amherst

Sep. 2016 - Jun. 2020

- B.S. in Mathematics with a concentration in computational mathematics
- Minor in Japanese
- Member of the Commonwealth Honors College

Technical Skills

- Languages: C#, TypeScript, JavaScript Ruby, Rust, HTML, CSS
- Frameworks: React, Preact, Unity, NodeJS, Ruby on Rails, Gatsby
- Tooling: UniRX, DOTween, AWS, JQuery, Webpack, Vite, Jest
- Databases: PostgreSQL, FireBase
- · Other: Sketch, Figma