Brandon Ly

Software Engineer

About

- West Covina, CA, US
- brandonkly@ucla.edu
- (626)-384-8933
- brandonkylely
- Brandon Ly
- Portfolio

Languages

HTML CSS
Javascript/Typescript
Python C MySQL
MongoDB

Libraries and Frameworks

React.js Node.js
Express.js Handlebars.js
Bootstrap TailwindCSS
Three.js

Agile Tools

Git Trello Docker Jest

Summary

Full stack software engineer leveraging a background in biochemistry and research to build intuitive and responsive web applications. Experienced in problem solving and collaboration. Knowledgable on industry best practices and agile development.

Education

Harvard University/edX
05/2023 - 07/2023
Certificate, CS50x: Computer Science

University of California, Irvine
09/2022 - 03/2023
Certificate, Coding: Computer Science

University of California, Los Angeles
08/2016 - 12/2020
Bachelor of Science, Biochemistry

Open Source Projects

Anaxi · https://www.anaxi.app/
A map app able to run proximity searches and route calculations on a 3d map.

React.js MongoDB GoogleMaps API deck.gl

- Streamlined map load times by 100% by implementing React best practices for component rendering and state management.
- Handled polyline data to calculate and display animated routes for user searches.
- Engineered database routes for users to save and update their favorite locations or routes.

isGameTrue · https://bit.ly/isGameTrue
A platformer RPG where users can compete for high scores.

Handlebars.js SQL RESTful API Phaser.io

- Optimized performance by 50% through proper asset management and unloading.
- Managed data transfer between levels within Phaser framework and working database.
- Developed multitude of game mechanics including enemy AI, spawning/despawning, level transition, and sword combat.

duck blog · https://bit.ly/the-duck-blog
A silly tech blog.

Handlebars.js SQL RESTful API

- Improved site scalability by implementing offset pagination.
- Designed relational database with full CRUD operations between users, posts, and comments.
- Incorporated a Reddit-inspired page layout using TailwindCSS.

Experience

Confidential
02/2022 - 09/2022
Aerospace Chemicals
Chemist

Contracted to join a research and development team to develop aerospace products for aircraft construction.

- Increased the material properties of new chemical products by up to 70% in some benchmarks.
- Successfully improved team efficiency by 50% through proper project management, communication, and workflow optimization.
- Collaborated with research teams, industry professionals, and university professors to spearhead potential new formulations.