

ANDREW LEE

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TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, Ruby, Python, Java, Perl, C++, XSL-FO

Databases: SQL, PostgreSQL

Software/Tools: ReactJS, Redux, Rails, GitHub, Heroku, Flask, Node.js, Sass, Bootstrap, Jest, Capybara

PROJECTS

(Launch Academy) Tab Loom: tab-loom.herokuapp.com, github.com/freerangeandy/tab-loom

- Guitar tablature editor with interactive fretboard and chord inputs.
- Integrated ReactJS with Redux into Ruby on Rails web app with PostgreSQL database, styling handled with Bootstrap and Sass, user authentication handled with Devise, API calls handled with Faraday.

(Launch Academy) Game Review Hero: gamereviewhero.herokuapp.com, github.com/freerangeandy/video-game-reviews

- Website for users to post reviews of video games (four-person team project).
- Integrated ReactJS into Ruby on Rails web app with PostgreSQL database, Foundation and CSS for styling, Devise for user authentication, RSpec for model and controller testing.

MyCalculator: github.com/freerangeandy/mycalculator

- Web-based scientific calculator for performing algebra, calculus, and matrix operations.
- Built calculator components in ReactJS; performed calculations using nerdamer library; rendered LaTeX output with react-katex library; implemented media queries with Material-UI framework.

RELATED EXPERIENCE

Launch Academy

Boston, MA

Apprentice Full Stack Developer

December 2019 - May 2020

- Completed full-time, immersive bootcamp and learned server-side and front-end development skills.
- Applied object-oriented and test-driven development (TDD) principles to build professional-quality web applications.
- Collaborated with other apprentice developers using Git workflow and pair-programming principles.

Variable Annuity Life Insurance Company (VALIC)

Boston, MA

Programmer Analyst

February 2008 - April 2015

- Built and maintained J2EE applications for use by financial planning advisors in the field.
- Coded algorithms for modeling the performance of investment portfolios under Monte Carlo-simulated market conditions, enabling advisors to sell client-tailored annuity products.
- Integrated API requests to SOAP web service into financial modeling software to automate upload of up-to-date investment data, reducing monthly overhead in our development cycle.
- Created GUI tool for querying and applying advanced filters to bulk XML test data, enabling QA team to craft test cases that achieved complete coverage of our application logic.
- Oversaw efforts to refactor our codebase into Java using a custom set of Perl modules; processing speed of financial reports during periods of heavy advisor traffic on our servers was doubled.

OTHER EXPERIENCE

Waltham Public Schools & Somerville Public Schools

Waltham, MA/Somerville, MA

High School Math Teacher

February 2017 - March 2019

- Instructed five classes full-time, including Algebra 2, Geometry, and Pre-Calculus.
- Prepared and delivered interactive, differentiated lectures aligned with MA Curriculum Framework.

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

B.S. in Mathematics & Minor in Biology

September 2003 - June 2007