JAEHYUK LEE

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SKILLS   Ruby – Ruby on Rails, JavaScript / TypeScript – Node, Express, React, Redux, Angular, Svelte

EXPERIENCE

Junior Software Developer | **Elevate Consulting** | Software Solutions   Oct 2020 - Present
– Main developer for Chargify's HubSpot integration from scratch, built with Ruby on Rails. Configured OAuth; two-way sync of data via webhook on both sides; cron jobs for data not supported by webhook; paginated APIs; automated large-scale data syncs using batch calls and in chunks to ensure staying under both the per call and per time API limits.
– Built custom management web dashboards using the MEAN stack, tailored to the specific business needs of various clients (KeepYourIP, Solar Art, TowerCom).
– (In progress) Introductory training in DevOps (learning Docker, Kubernetes).

Software Engineer Intern | **Sopossum** | Amazon Seller Productivity Tool   Aug 2020 - Oct 2020
– Led the migration of the front-end application to Sapper to add the benefits of SSR, code-splitting, and routing while maintaining the instantaneous navigation feel of a single-page app.
– Built various reactive front-end components in Svelte, including data visualizations of user action logs.

Project Manager | **U-Mind Club** | E-Commerce Platform   Jan 2017 - Aug 2019
– Prioritized improvements of the seller central UI through analysis of user data, attributing to a +20% growth in the rate of number of products listed over a quarter.

Data Administrator | **North Carolina Joint Underwriting Association** | Property Insurance   Jul 2014 - Jun 2016
– Ensured consistent data scrubbing procedures for a two-year project to transition the database management system to new software to improve efficiency and customer support quality.

EDUCATION

Bachelor of Science | **Duke University** | Durham, NC   Aug 2008 - May 2012
– Bachelor of Science in Psychology, Minor in Statistical Science, Certificate in Markets and Management
– Honors: Graduation with Distinction May 2012, Dean's List Fall 2010
– Completed an honors thesis in the form of an empirical research article and its defense facing a faculty committee.

PROJECTS

Museic | React | Redux | Node.js | Express | MongoDB | S3   live | github
A social platform with a unique UI to record and share short melodies
– Created a piano keys UI with React and Tone.js that allows for user input to be saved directly into the database as an array of music notes, eliminating the need for audio file storage.
– Built a real-time visualization component to draw user input notes to the DOM (using only math and CSS), enhancing user engagement and interactivity.
– Secured user auth by encrypting user credentials via the JSON Web Token (JWT) library.

Animated Image Histogram | JavaScript | HTML Canvas   live | github
A simple, interactive program to turn any image into an image histogram
– Built the animation using only math in JavaScript and canvas API with no libraries.
– Implemented responsive web/mobile design using CSS media queries**.**

SoriCloud | React | Redux | Rails | PostgreSQL | jQuery | webpack | S3   live | github
A single-page web application for streaming music and uploading your own - a SoundCloud clone
– Leveraged Redux actions with modular React components to keep the main audio player in sync with interactive waveform visualizations and play/pause toggles.
– Designed RESTful APIs with optimized queries by eager-loading Active Record associations to prevent the N+1 selects problem when extracting data from multiple tables.
– Configured Amazon S3 with Rails and Postgres for cloud storage of media uploads.
– Utilized tools such as BCrypt and customized React-Router higher-order components to build custom user authentication to learn its inner workings.