

Alexander Benko

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Skills:

Languages: Javascript(ES6+), Python, C++
Front End: React, JQuery ,HTML5, CSS3, Material U.I
Back End: Node.js, Express, Flask, RESTful API Development
Databases: MySQL, PostgreSQL, MongoDB ,Mongoose, and AWS RDS
Deployment: AWS EC2, AWS S3 , Docker, Heroku
Tools: Git, npm, Webpack, Babel, Artillery, Jest, Nginx, Axios, Next.js, Gatsby.Js, Contentful, GraphQL
Misc: Linux, Ubuntu

Applications:

Lululemon Review Section <https://github.com/alexbenko/System-Design-Capstone>, React, Node.js, Express, PostgreSQL, Artillery,Loader.io, EC2,Docker, Nginx

Deployed and horizontally Scaled a recreation of a website but with 10 million primary database entries

- Created a script that generated and then inserted 20 - 70 million reviews into a Postgres database by generating a massive CSV file and then inserting it into my database.
- Indexed my Postgres database to keep queries under 50ms
- Horizontally scaled, increasing a 300 RPS , 10 % error rate, and 200ms latency to 8500 RPS , 0% error rate, and 130ms latency via a Nginx round-robin load balancer, 3 EC2 proxy servers, and server side rendering

theLolStats <https://thelolstats.herokuapp.com/>, React, Node.js, Express, Axios, Docker, Heroku, Material UI

A stat website for the popular video game, League of Legends. Built entirely by myself

- Built dynamically rendered web app and a responsive UI
- Improved page load speed by 90 % through proper configuration and Dockerization
- Refactored all callback functions to be promise based , and implemented *Asynchronous programming*, to ensure three GET requests resolved in the correct order where the later two are dependent on data from the first request

Fenty Beauty Navigation/Search Bar <https://github.com/alexbenko/fenty-nav-youll-wanna-see-this->, React, Node.js, Express, MySQL, Babel, Webpack, EC2, Docker

Worked with a team to recreate the product display page of a popular E-Commerce Website, Fenty Beauty

- Built Out the Front and Back End for the nav bar and search component to mimic Fenty Beauty
- Implemented agile software development to render my team's components on the same page with a Proxy server
- Deployed to EC2 using Docker with all images and static files hosted on S3

Education:

Hack Reactor - Advanced Software Engineering Immersive 2020

Diablo Valley College - General Studies 2018-2019

Relevant Coursework: Introduction To Programming

California State University Maritime Academy - International Business 2016-2017

Relevant Coursework: Critical Thinking

De La Salle High School 2012-2016

Professional Experience:

YMCA of San Diego County | Head Lifeguard 2019 -2020

Marin County Parks | Senior Lifeguard 2019

- Managed staff of 15-30 lifeguards
- Organized and facilitated weekly/monthly training for staff to ensure up to date safety techniques.
- *Collaborated with supervisors* to implement new safety policies which reduced the amount of people needing lifeguard intervention by 40%