

# Alexander Benko

San Diego, Ca  
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## Skills:

Languages: Javascript(ES6+)/Typescript, Python, C++, Go  
Front End: React.js, Vue.js, Material UI, HTML5, CSS3  
Back End: Node.js, Express, Flask, RESTful API Development  
Databases: MySQL, PostgreSQL, MongoDB, and AWS RDS  
Deployment: AWS, GCP, Azure, Heroku, Netlify  
Misc: Linux, Ubuntu, Docker, Nginx, Jest, Next.js, Git, npm, Webpack, Jira, Github Actions

## Professional Experience:

### **Jr. Full Stack Software Engineer | Direct Communication Solutions**

**November 2020 - Present**

- Designed, developed, and maintained multiple software applications written in Node.js and React.js utilizing a SQL database.
- Collaborated with the software engineering team to develop and integrate APIs into the codebase.
- Recommended and implemented changes to products to ensure the best possible experience for the client.
- Improved initial load speed of an internal company website by 150% as well as several other optimization and critical bug fixes preventing the loss of important data.

## Applications:

**HireMee** <https://github.com/alexbenko/HireMee-job-view>, React, Material UI, Nodejs, Express, PostgreSQL, AWS

*A simple and social Job Application status tracking website built with a team of 4.*

- Established and met every daily standup with my team to plan architecture, discuss issues, solve issues in pair programming sessions.
- Built dynamically styled components where a variety of CSS would be applied based on certain conditions.
- Implemented A Promise based form checking function that prevents users from adding a new application unless all the requirements were met.

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

*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 10 gb 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

**Fenty Beauty Navigation/Search Bar** <https://github.com/alexbenko/fenty-nav-youll-wanna-see-this->

*React, Node.js, Express, MySQL, Babel, Webpack, Docker, AWS*

*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 to build a complete web app
- 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** - Computer Science

2017-2019

## Misc Experience:

**Senior Lifeguard | Marin County Parks**

2019

**Lifeguard 1 | East Bay Regional District**

2017 - 2019

**Competitive Year Round Swimmer | Terrapins Swim Club**

2006 - 2017

