Matthew Chang

software engineer | full stack developer

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Skills

Proficient: Javascript, GoLang, React, Express, PostgreSQL, Redis, HTML5, CSS3, Git, SQL, Docker, Redux, React-Query, Typescript
Knowledgable: K8s, Openshift, Java, C++, Python, NextJS, Bootstrap, MaterialUI, Figma, make, OpenAPI
Familiar: Travis, Jenkins, Splunk, Prometheus, Argo, Helm

Experience

IBM - Software Engineer **August 2021 - Current**

- Worked on an internal PaaS running on OpenShift and built with React.JS that serves over 11,000 highly available applications
- Built and updated several Golang microservices to assist in the orchestration of user workloads, including an experimental PoC API that used read-replicas and circuit-breaker patterns to improve resiliency
- Took part in a monitoring and observability initiative that introduced several integrations of external libraries into the platform and development environment
- Implemented several UI instances of a machine learning documentation assistant, including a Slack Bot in written in Typescript, integration into the service portal for my team's PaaS, and integration into the PaaS itself
- Added several full stack features, from SQL statement to React component to provide a better and more expansive experience for users

IBM- Software Engineering Intern **May 2021 - August 2021**

- Designed and developed a single-page web app analytics dashboard to surface, visualize, and notify on users and applications' behavior on an internal PaaS
- Created data visualizations and notifications to monitor security vulnerabilities on applications
- Implemented a universal search feature to view projects and deployments by name, namespace, or member email
- Participated in a Hackathon challenge with a team of interns to create a mobile platform for farmers to optimize their distribution systems

Projects

Porfolio - https://portfolio-flame-phi.vercel.app **October 2020 and Current**

- Single-page web app built in Next.JS to showcase work experience, projects, and personal interests
- Animations built with Framer-Motion.js
- Currently revisiting the project to update its content and design, and to refactor to Typescript

Booksnap - https://github.com/var-and-peace/BookSnap **September 2020**

- A Mobile app built on React Native with the goal of being a central location for information about every book you own
- React-Native mobile frontend, Realm.JS mobile backend, and the Google Vision machine learning model to intelligently scan photos of a bookshelf and return a list of books through Google Books API to your mobile library

Mercado - https://www.youtube.com/watch?v=8Kry-zec8wI **June 2021**

- Developed a mobile application in React Native to optimize distribution networks for local producers over a three day hackathon
- Designed the UI for the application in Figma

Education

Fordham University - Bachelors of Science in Computer Science/Mathematics **August 2018 - May 2022**

- Graduated with a Major GPA of 3.73 and an overall GPA of 3.65
- Participated in Computer Science Society, including two Hackathons and a Robotics lab working with Arduino kits to create smart home modules

FullStack Academy - Web Developer's Bootcamp **July 2020 - November 2020**

- Enrolled in FSA's 20 week full time Web Developer's Bootcamp
- Projects include:
  - A single-page shopping web app with persistent cart and checkout features, SSO login and registration, and a simple API backend
  - A simple UI to create Google Maps animations consisting of a single-page app frontend and a python script to export the animation
  - Capstone Project: Booksnap, a book logging mobile app which includes a machine learning photo scanning feature to add spines off a bookshelf