
Collin Partee

Senior Software Engineer

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TECHNICAL

JavaScript	Node.js	React.js
Angular	XML/ HTML /CSS / SASS	Git / SVN
Oracle / Oracle PL/SQL	Firebase / Redis / MongoDB	Docker
MySQL / SQL	Linux / Windows	Ionic / Swift

WORK EXPERIENCE

Macy's Technology, Johns Creek, GA - *Senior Software Engineer*

Jan 2017 - PRESENT

Ares Space Optimizer

- Backend developer on a team that developed an application written in **Node** and **Java** to maximize space utilization inside of Macy's Megacenters. Application leveraged a Gurobi Machine Learning Engine to make optimized decisions on where to place items in the megacenter up to 7 days in the future based on key business rules.
- Crafted complex **Oracle** PL/SQL queries to gather required data to input into the Gurobi engine and to store the results of the engine into the required database tables.
- Developed **REST microservices** in **Node** using the restify framework. Complete with unit tests.
- Deployed to production using **Docker**.
- Coordinated with offshore team in India to achieve project deadlines.

Ares UI Dashboard

- Created a dashboard for the Ares application using **React** and **D3** with two components, a Space Utilization Heatmap and a Space Optimizer Result Table
- The Space Utilization heatmap is a map of the Megacenter that highlights the most used and most underused areas of the facility. The heatmap was created using **React** and **D3**.
- The Space Optimizer Result Table details the full results of the Gurobi Optimization engine along with the inputs that led to the decision.
- Responsible for developing backend for both components following the **microservices** architecture using **node.js** complete with unit tests for each microservice.
- **Dockerized** front and backend projects separately for production deployment.

Hey Macy's

- Participated in company hackathon and created a voice controlled POC Macy's mobile application. The POC app allowed users to search and filter the Macy's product catalog and display the results.
- Created the frontend using **Angular** and the **Ionic** platform
- Created the backend using a **node** service and leveraging a speech recognition service

Macy's Technology, Johns Creek GA - Software Engineer

June 2016 - Dec 2017

Space Utilization Dashboard - *description..*

- Created a Dashboard detailing the utilization of space inside the Macy's megacenters. The dashboard has 3 different views each focusing on a different facet of the megacenter.
- Worked with the business partners for 4 months using a pilot test and learn model to ensure complete customer satisfaction.
- Created the front end of the dashboard using **JavaScript**, **jQuery** and **D3**.
- Crafted complex **Oracle** PL/SQL queries to retrieve key business metrics.
- Created backend as a collection of **node** microservices. Leveraged Hapi.js library to create **REST** endpoints.
- **Dockerized** Node backend for production deployment.
- Led small team of offshore developers (2)

Macy's Technology, Johns Creek GA - Junior Software Engineer

June 2015 - June 2016

Downstream Routing

- The team had just finished developing an application for packing customer orders inside the Macy's Megacenters. I was tasked to choose the mobile device the application would run on inside of each of the Megacenters.
- Created a base image to be used on all 500+ devices across the 6 Megacenters.
- Managed device imaging process.
- Managed device deployment.
- Documented entire process.

Reality Runway

- Challenged by my former group VP to create a game that would engage millennials to shop more.
- Recruited a team of other Junior level engineers and we developed a game, similar to fantasy football, where users can sign in, create outfits from the Macy's product catalog and the community of users are able to vote and pick the best outfit.
- Developed the game using **Angular** and **Bootstrap** for the front end and **Java** for the backend.

PERSONAL PROJECTS

Sweet Hut

- Created a cross platform mobile application for Sweet Hut cafe & bakery, a national boba tea franchise.
- Created an app that allows customers to sign in, check loyalty points, add funds to their account, place order to the store.
- Created the app using **Angular** with the **ionic** platform and **Firebase**.
- Designed the UI using **Sketch** app.
- Integrated into multiple 3rd party api's and services including Ordyx and Payeezy
- Coming Spring 2018 to both Apple App Store and Google Play Store.

Salsa

- Contracted to design and develop an e-commerce website template using **React.js** for a payment processing company.
- Designed the UI using **Sketch** app

Black Magic

- I was asked to lead a workshop at the Delta Sigma Theta Sorority annual STE(A)M conference to get teens excited and interested in computer science.
- Created and led a workshop to teach teens how to create a mobile application using **Angular** and the **ionic** platform.
- Created and designed a trivia game app based on black history facts.

Shop Smart

- Created an cross platform mobile application that allows shoppers to create a shopping list, estimate the total of their shopping list and calculate discount prices on the fly.
- Created the app using **Angular** and the **Ionic** platform.
- Designed the UI using **Sketch** app
- Deployed and available on the Apple App Store

EDUCATION

Georgia State University, Atlanta GA - *B.S. Computer Science*

August 2011 - May 2015