Jason Cabrera

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Education

September 2017 – June 2021 | Major GPA: 3.69
University of California, San Diego | B.S. Computer Science

January 2022 – PRESENT (Part Time) | Current GPA: 3.63
University of Texas at Austin | M.S. Computer Science

Technical Skills

Java, Spring Boot, Python, C#, JavaScript, NodeJS, ReactJS, VueJS, AngularJS, SQL, Relational Databases, Express, PostgresDB, Kubernetes, Docker, Azure DevOps, Github Actions, MongoDB, Android, C++/C

Work Experience

General Motors | Full Stack Software Engineer, DevOps, Data Analysis | July 2021 – Present
- Tech Stack: AngularJS, Java Spring Boot, Python Flask, PostgresDB, Docker, K8s
- Designed and implemented the architecture for Blue Green Deployment on K8s, cutting application downtime during release from 10 minutes to 10 seconds
- Implemented a feature which notifies users of testing date changes for different electrical architectures, while giving plan editors the ability to accept or reject the date changes
- Created a form page that gets filled out by multiple people with different roles. Effectively componentized the sections UI and implemented the API to save the form in an efficient and transactional manner
- Implemented logistic regression using scikit-learn to predict if a hardware controller enables a vehicle feature by utilizing data within vehicle architecture plans
- Redesigned and enhanced the application's UI router to utilize the standard Angular router in a more efficient manner
- Created Build and Release pipelines to deploy Docker images of microservices to Kubernetes using Azure DevOps build and release pipelines. Currently migrating the team's CI/CD to Github Actions

Bentley Systems | Software Engineer Intern | September 2020 – December 2020
- Created unit tests using C# and the Moq testing framework, resulting in increased code coverage throughout the codebase
- Converted Angular webapp pages such as User Acknowledgment and Custom Dashboard to its React equivalent
- Integrated React Redux into the React pages to better maintain component states

Projects

Kiwi Forum | Project Manager and Full Stack Developer | *https://github.com/Jjx003/KIWIS*
- Tech Stack: ReactJS, NodeJS, Express, Firebase
- Led a team of ten developers in an Agile environment to develop a specialized forum web application for a software engineering course
- Created the database schema, added navbar functionality that allowed employees to list/change the specialization by which their forum was filtered by, and created/tested RESTful API for CRUD operations on the database
- Developed the authentication system using Express, Firebase, and cookies to allow employees and admin authenticated backend routes and pages
- Created a secure employee invite system that emails a unique one-time-only invite link to a specified employee's email that would grant access to the admin's company forum

Movie of the Week | Personal Project | *https://github.com/jayrc7/Movie-of-the-week*
- Tech Stack: ReactJS, NodeJS, MongoDB
- Developed a movie tool that allows friend groups to insert their movie suggestions and then randomly picks a movie from a user that hasn't been chosen yet
- Created a recent updates section using merge sort by sorting on multiple date-valued fields in the database. Updates include someone recommending a new movie or a movie being marked as watched by a group
- Implemented a user authentication system using server-side cookies and middleware functions as well as creating a react authentication component that checks if the user is authenticated before showing a page