

# 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: 4.0*

**University of Texas at Austin** | M.S. Computer Science -  
Machine Learning Specialization

## Technical Skills

**Advanced** | Java, Spring Boot, C#, Python, JavaScript, Node.js, ReactJS, Angular JS, SQL, Relational Databases

**Familiar** | C++, C, Kotlin, Machine Learning, Android, Pandas, Numpy, Android, JQuery, Amazon S3, Azure DevOps

## Work Experience

**General Motors** | Full Stack Software Engineer | *July 2021 – PRESENT*

- Optimized SQL queries within microservices for better performance. Resolved concurrency issues using row level locking mechanisms provided by OracleDB.
- Added new frontend features such as form validation, duplicate account prevention, and a new feature for being able to transfer existing vehicles plans from the customer's previous vehicle to their new vehicle.
- Updated database schemas and created API routes to support transferred plans functionality
- Worked on adding features to internal web applications such as being able to login using an employee's Microsoft account as well as adding middleware function to API routes to prevent unauthenticated users from accessing the different tools portals.
- Created a new microservice to automate some of the manual work needed when updating a vehicle module's software over the air
- Created Build and Release pipelines to deploy Docker images of microservices to Kubernetes using Azure DevOps build and release pipelines
- Lead a team workshop on how to deploy applications to Kubernetes through Azure DevOps pipelines.
- Resolved many bugs and improved overall performance of the JavaScript and Android Studio based emulators used for testing the applications in the different vehicle screens (NGI, Info3, Google Automotive Services, Ultifi).
- Developed a new feature for the NCAA march madness in vehicle application that sends vehicle notifications to the driver for upcoming and current games played by their favorite teams. Implemented option for turning on/off notifications

## Projects

**Kiwi Forum** | Undergraduate Software Engineering Course, Project Manager and Full Stack Developer

- Developed Led a team of ten developers in an Agile environment to develop a specialized forum web application for a software engineering course. Tech Stack: ReactJS, NodeJS, Express, Firebase
- 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** | Full Stack Software Development | <https://github.com/jayrc7/Movie-of-the-week>

- Developed a movie tool using React and NodeJS 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.