

CARLOS FLORES

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OBJECTIVE

To obtain a full-time position in web or mobile development utilizing React.js, React Native, or Node.js.

PROJECTS

myFlix Movie App

List of Technologies Used: React.js, Node.js, MongoDB, Express, Mongoose, Heroku

- Built the server-side of the myFlix web app, including the app's REST API and database with film information. Implemented HTTP and JWT authentication into the API, modelled business logic, and hosted project for use on Heroku.
- Built the client-side of the myFlix web app with React to interface with server-side. Developed a single-page, responsive web app with the ability for user to register, log-in, access film information, and add/remove films from user's list of favorites.

Mobile Chat App

List of Technologies Used: React Native, Expo, Google Firestore, Google Firebase, GiftedChat

- Built chat app for mobile devices with React Native which provides users with a chat interface and options to share images and locations. Built chat functionality with GiftedChat library and developed chat storage with Google Firestore.
- Developed offline features for users including the ability to store and access chats offline.

WORK EXPERIENCE

General Motors – Pontiac, MI

August 2016 – February 2018

Development and Validation Engineer: Transmission Components Group (2016 – 2017)

- Investigated torque converters under warranty having issues related to slip and developed work orders for component testing.
- Conducted analytical stress testing in collaboration with lab technicians for potential transmission valve body imperfections.

Design Release Engineer: GM-Honda Fuel Cell Propulsion Systems (2017)

- Created Statement of Requirements and Component Technical Specifications for fuel cell coolant temperature sensor; interfaced with Japan-based Honda fuel cell design team to finalize SoR and CTS for pre-production parts.
- Interacted with domestic and international suppliers; evaluated supplier capability to meet product requirements.

Algorithm & Software Engineer: CVT Transmission (2017)

- Conducted onsite vehicle testing for CVT software for MY 2019 Chevrolet Malibu; recorded CVT performance under various driving conditions and calibration settings, and analyzed test data to verify CVT software performance.

Electronic Controller Engineer: Engine Controllers (2017 – 2018)

- Tested performance of Engine Controller Module through use of test bench and Lauterbach in-circuit emulator; developed Trace32 scripts for automated ECM testing.

Johnson Controls, Inc. – Houston, TX

June 2015 – August 2015

Sales & Project Engineering Intern

- Created Excel reporting process to share upcoming bid information for construction projects in the Houston area from iSQFT web resource; resulted in identification of more than 130 sales opportunities.

GE Oil & Gas – Alexandria, LA

June 2014 – August 2014

Industrial Engineering Intern

- Inventoried and catalogued hydrostatic test fixtures and functional test room fixtures for the design of a plant-wide database; resulted in two streamlined processes and an estimated annual savings of \$242,000.

SKILLS

- *Software and Tools:* JavaScript, React, React Native, Node.js, Angular, Express, MongoDB, HTML, CSS, Postman, Git, SolidWorks, Microsoft Office, LabVIEW, Simulink, ETAS MDA, ETAS INCA, Lauterbach Dev Tools, Trace32, MATLAB, R
- *Industrial Skills:* Lathe & Mill Operation, Arc Welding, Mig Welding
- *Additional Languages:* Spanish (Fluent)

EDUCATION

CareerFoundry – Berlin, Germany (Remote)

Graduated March 2021

Full Stack Web Development Certificate

Rice University – Houston, TX

Graduated May 2016

Bachelor of Science in Mechanical Engineering

LEADERSHIP & AFFILIATIONS

Rice Center for Engineering Leadership (RCEL) – Houston, TX

August 2014 – May 2016

Engineering Leadership Lab Coach (2015 – 2016)

- Coached group of 4 underclassmen students through a variety of interactive activities to hone leadership skills; evaluated performance of team and provided constructive feedback to students.

Society of Hispanic Professional Engineers (SHPE) – Houston, TX

August 2012 – May 2016

Treasurer (2014 – 2015)

- Managed yearly budget of above \$17,000; budgeted for RICE SHPE outreach events and student sponsorships for conferences.