

Sebastián Arrazola

github.com/SeaBa55 • Dearborn, MI 48124 • 2405053886 • sebastianarrazola@gmail.com

Summary of Qualifications

Information Technology

- Experience with Git to facilitate code management and collaboration efforts
- Familiarity with multiple terminal emulators including Git Bash, Cygwin, and Windows Terminal
- Proficient in building robust responsive web applications using a variety of technologies including HTML, CSS, JavaScript, jQuery, Bootstrap, Node.js
- Knowledge of many web libraries and frameworks including React.js and Express.js
- Experience designing modular applications based on established best practices/design paradigms including MVC (Model View Controller) through the use of development stacks such as MERN (MongoDB, Express, React, Node) and LAMP (Linux, Apache, MySQL, Python)
- Familiar with SQL and NoSQL databases including Oracle, MySQL, MongoDB and their respective ORM's (Object Relational Mappers)
- Knowledge of package management via NPM to implement required application features within the Node.js ecosystem
- Experience with Agile software development model
- Excellent working knowledge of embedded systems implementation utilizing low-level technologies including Assembly, C/C++
- Knowledge of object-oriented programming languages and design philosophy, particularly as it relates to the Java Enterprise (J2EE) ecosystem
- Exposure to several Linux flavors (RedHat, Ubuntu, CentOS, etc.)
- Exceptional scripting and automation abilities with shell/bash

Experience

Full Stack Engineer - Java/React

Nov. 2021—Present

American Express

Virtual, MI

- Contribute to an agile team driving the latest development practices.
- Design solutions that are scalable and can be delivered iteratively to maximize business value.
- Apply expertise in the definition and implementation of effective software engineering practices and processes, resulting in high speed to market.
- Utilization of test-driven development, open-source style project maintainers, PR review process, issue triage, code reviews, code contribution metrics, test automation strategies, CI/CD optimization.
- Implement features and patches to React application and enterprise Java microservice integration and reactive patterns.
- Integrate APIs provided by various teams in American Express.
- Identify opportunities to adopt new technologies.

HEV On-Board Diagnostics (OBD-II) Calibration Engineer

Sept. 2016—Nov. 2021

Ford Motor Company

Dearborn, MI

- Lead and manage an OBD team of seven calibration engineers, report to internal stakeholders, and monitor the status of task completion under tight "go-fast" deadlines.
- Responsible for OBD fault coordination, documentation, and validation of Powertrain Control Module software.
- Coordinate new OBD feature specifications, algorithm development, prototype validation, and software release planning.
- Identify and report functional deficiencies, track issues, and propose resolutions to software strategists and management.
- Collect faulted OBD emissions data in dyno lab to assess compliance with Global standards and regulations, including the California Air Resources Board (CARB) OBD-II regulations.

Experience

Michigan State University College of Engineering

Nov. 2020

Professional Certificate, Full-Stack Web Development

- Course highlights: Learned to work with Git, Git Bash, HTML, CSS, JavaScript, jQuery, Bootstrap, Node.js, Express.js, Express-session, Express-handlebars, React.js, Database Theory, MySQL, Sequelize, NoSQL, MongoDB & working in an agile-based team environment

Microprocessors & Embedded Systems

Fall 2017

UM-Dearborn College of Engineering & Computer Science

- Course focused on modern digital computer logic; Numbers and coding systems; Boolean algebra with applications to logic systems; combinational and sequential logic design; simple machine language programming; microprocessors-programming, input/output, interrupts, and system design; Assembly and C/C++

B.S. in Mechanical Engineering

May 2016

University of Maryland A. James Clark School of Engineering

- Course highlights: Computer-Aided Design, Heat Transfer, Electronics & Instrumentation, Vibrations & Controls, Automotive Design Theory, Vehicle Dynamics, and Fundamentals of Internal Combustion Engines