Sebastián Arrazola

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Summary of Qualifications

Information Technology

- Experience with scrum agile software development methodologies
- Familiarity with multiple terminal emulators including Git Bash, Cygwin, and Windows Terminal and exposure to UNIX and several Linux flavors (RedHat, Ubuntu, CentOS, etc.)
- Experience with Git to facilitate code management and collaboration efforts
- Exceptional scripting and automation abilities with shell/bash
- Excellent working knowledge of embedded systems implementation utilizing low-level technologies including Assembly, C/C++
- Familiar with web communication protocols including HTTP, WebSocket, and WebRTC
- Knowledge of object-oriented programming languages and design philosophy, particularly as it relates to the Java Enterprise (J2EE) ecosystem
- Experience with package management and build automation via NPM and MVN to implement and build application features within JavaScript and Java ecosystems
- Proficient at building robust responsive web UI's using a variety of technologies and frameworks including HTML, CSS, JavaScript, jQuery, Bootstrap, Node.js, Express.js, and React.js.
- Experience designing modular application and microservices 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), LAMP (Linux, Apache, MySQL, Python), and Spring MVC/WebFlux
- Familiar with SQL and NoSQL databases including Oracle, MySQL, PostgreSQL, Apache Cassandra, MongoDB and their respective ORM's (Object Relational Mappers)
- Knowledge of containerization and container orchestration using Docker, OpenShift and Kubernetes.

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.

Education

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