Enelson Castro

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Curious coder with a passion for the terminal and scripting languages in embedded systems.

Skills

Front End	Back End	DevOps	Platforms	Database
HTML/CSS	Python/PHP	Git/Github	Android	MySQL
Javascript/Typescript	Java/Kotlin	AWS/Docker	Linux/Windows	GraphQL
React Native	C/C++	ETM/DOORS	AUTOSAR	CAN DBC
		Vector CANoe		LIN LDF

Professional Experience

Embeeded Software Engineer at Continental Engineering Services |Auburn Hills, Michigan, USA.
November 2021 - May 2024

▷ Digested requirements using DOORS and converted them into actionable tickets in JIRA which implement new features in an AUTOSAR project.

▷ Constructed and executed software unit tests using SWATT tool and functional test using Vector CANoe CAPL scripts.

▷ Added Functional Safety for Stop Lamps and other lights failure strategy with up to ASIL B compliance to a Body Control Module ECU.

▷ Added features for SBR mats and buckles controls, UDS DTCs and DIDs, as well as Diagnostics routines to ECUs.

▷ Configure CI and scripts to run unit tests as well as having QTools reports to detect any MISRA findings in the code.

▷ Developed OTA software updates, logging, and custom commands for Telematics Control Unit(TCU).

▷ Documented and constructed multiple guides about TCUs and ECUs services and features in Confluence.

Developer at STIR LAB |Orlando, Florida, USA.
June 2019 - July 2020

▷ Converted mockup into a website using HTML, CSS, Javacript as frontend and PHP as the backend.

▷ Analyzed Instagram data export and construct a relational database and schema using AWS RDS with MySQL.

▷ Developed Instagram data upload and database parsing using AWS Lambda functions.

▷ Hosted a website in an AWS EC2 that connected workflow with Qualtrics Survey and added a personalized experience to the beginning and end of survey.

▷ Lead an IT and security audit including resolving CVEs using AWS Detective and Inspector.

Projects

myGrowth |Source

▷ Compiled design documents illustrating the project capabilities, limitations, and future plans.

▷ Constructed a multiplatform application using React Native that interacted with an AWS Serverless back-end secured through AWS Cognito.

▷ Developed a system to effortlessly collect daily health entry from the user and store them in the database for later editing and data visualization.

Education

University of Central Florida |B.S. Computer Science
08/2017 - 05/2021 | Orlando, Florida, USA.
GPA: 3.5/4.0

Interest

Hackathon Enthusiast | Linux Ninja | Yocto Hacker | Machine Learning Fan