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📁 <https://blancasj.github.io/portfolio/>

JORGE BLANCAS CRUZ

SOFTWARE ENGINEER

PROFILE SUMMARY

B.Eng. in Computational Embedded Systems, over 2 years of experience developing mini-projects and integrating them to other areas such as computer vision, web development, and automation. Then, became a Software Engineer with 1 year of experience working on projects related to web development. Competent at the use of JavaScript (ReactJS, NodeJS, and ExpressJS). Encouraged to continually grow and to solve the problems that may arise by working collaboratively.

EDUCATION

**Bachelor Degree in Computational
Embedded Systems**

Universidad Politécnica de Yucatan,
Merida, Yucatan,
2016 - 2020

CERTIFICATIONS

In Progress – JavaScript Developer I

TECHNOLOGIES

Databases:

PostgreSQL | MySQL | MongoDB |
AWS RDS

Programming Languages:

JavaScript | TypeScript | Python | C |
SQL | PHP | Matrix Laboratory
(MATLAB)

Frameworks:

ReactJS | NodeJS | ExpressJS |
Flugzeug

Technology Stack:

HTML5 | CSS3 | Redux | MaterialUI |
Swagger | Sequelize | Docker

Methodologies:

Scrum | Kanban

Data formats:

JSON | CSV

Tools:

Git | GitHub | Terminal

Platforms/Servers:

NGINX | AWS | Azure

PROFESSIONAL EXPERIENCE

Role: Software Engineer

Client: The Ksquare Group

Software: JavaScript: (NodeJS, ExpressJS, Flugzeug)

Project Details:

Development of an "Employee Portal" with role-based permissions (HR, Manager, Employee) and modules for dynamic benefits knowledge base, management of benefits packages, timesheet submission and approvals and PTO management.

Roles & responsibilities:

- Development of back-end (NodeJS and Flugzeug) models' endpoints.
- Document RESTFULL APIs using swagger.
- Smoke tests for the backend application.
- Management of GitHub repository across a JavaScript (NodeJs) code.
- Task management and maintenance with Open Project.
- Development of services base on business rules.
- Identify and communicate technical problems, processes and solutions.
- Communication with Azure.
- Manage Sequelize to handle CRUD operations.
- Manage Docker to run the application across platforms.

Technologies stack used: Flugzeug / NodeJs / ExpressJS / Typescript / Git / GitHub / Open Project / SQL / PostgreSQL / Swagger / Sequelize / Docker / Azure

Role: Associate Engineer

Client: Ksquare University

Software: JavaScript: (ReactJS, Redux, NodeJS, ExpressJS)

Project Details:

High-performance program focused on reinforcing programming skills with JavaScript specialty, soft skills and business strategies for development.

Roles & responsibilities:

- Development of own portfolio application with vanilla JavaScript, HTML5, and CSS3 on GitHub pages.
- Creation of RESTFUL APIs on NodeJS for mini-projects
- Creation of Single Page Apps using ReactJS and Redux.
- Performance optimization and generation of queries for SQL and No-SQL databases.
- Mini-projects on Vanilla JS for knowledge consolidation on JS Fundamentals like DOM Manipulation and Event Management.
- Management of EC2 instances for mini-projects and CI/CD pipeline testing.
- Configuration of Cloud App environment in AWS with CloudFront distribution, S3 storage, Route 53 DNS configuration and CodeBuild Pipeline.
- Implementation of design thinking on development.
- Manage Agile methodologies.
- Improvement of skills for business-level presentations.

Technologies stack used: ReactJS / Redux / MaterialUI / NodeJS / Express / JavaScript / HTML5 / CSS3 / Git / GitHub / AWS / SQL / MongoDB / MySQL

PROFESSIONAL EXPERIENCE

Role: PLC Programmer & Embedded Systems Developer

Client: Vazlo S.A. de C.V., January 2020 to April 2020.

Software: Python, RS Logix 500

Project Details:

Development of a user-friendly real-time system for object counting using computer vision as the core and ladder diagram to transform it in an industrial process.

Roles & responsibilities:

- Research and study about computer vision.
- Develop the tracking and counting object algorithm in Python CV2.
- Automate a conveyor belt process to move the objects and react to specific events.
- Make the connection between object counting program and automation process to work together.
- Design of a user-friendly interface in python to interact with the process.
- Write a research paper to document the project in LATEX.

Technologies stack used: Python / CV2 / Raspberry pi / RS Logix 500 / PLC: MicroLogix 1400 / LATEX

Role: PLC Programmer & Web Developer.

Client: Universidad Politécnica de Yucatan, October 2019 to December 2019.

Software: JavaScript, Tia Portal

Project Details:

Automate school equipment and visualize its data remotely. The equipment consisted of one linear robot which takes objects and put them on a conveyor belt which can check whether the object is metal or plastic and at the same time, count them.

Roles & responsibilities:

- Read documentation related to equipment management.
- Program equipment to accomplish recognition and counting process.
- Make the communication between both controllers to synchronize the processes.
- Send relevant data from a PLC to a ESP32 via ethernet.
- Develop a simple web page with vanilla JavaScript, HTML5 and CSS3.
- Manage data with php and SQL.
- Make an animation of the conveyor belt process in real-time.

Technologies stack used: HTML5 / CSS3 / JavaScript / PHP / phpMyAdmin / SQL / PLC: Siemens S7-1200 / Tia Portal / ESP32