Nelson Ochoa

Professional Profile

Self-driven full-stack developer. Well-versed in open source Unix-based systems. Excellent communication skills. Affinity for designing and tuning systems. Genuinely enthusiastic about learning, building, and shipping quality software.

Work Experience

Feb 2015 – Current

Software Developer/ Scrum Master
Osprey Informatics

As Software Developer

- Develop *front-end* and *backend* product features according to specifications.

- Design to address the technical challenges.

- Build demonstrable features.

- Ensure product quality with testing.

- Review and test teammates code to ensure quality.

- Ensure the code is documented and readable.

- Resolve critical system failures

- Research and present alternatives to the Development Manager to develop requested features

Jan 2017 – Current
As Scrum Master

- Facilitate the Scrum process

- Run all Agile meetings

- Work with the Manager and Product Owner, remove any roadblocks the team encounters

- Manage the Product Owner?s expectations

- Create an environment conducive to team self-organization

- Capture empirical data to adjust forecasts

- Shields the team from external interference and distractions to keep it focused

Contact

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Education

2009 – Jun 2014	**BSc. Systems Engineering** *Universidad Metropolitana, Caracas, VE* Honourable Mention Award

Certificates

2016	**Machine Learning - Coursera**

Technical Qualifications

OS	Linux (Ubuntu), OSX
Programming	Python, Javascript (ES5, ES6), Java HTML5, CSS3
Frameworks	Django, Twisted, Angular, Bootstrap
Software	Jira, Bitbucket, Confluence, MS Office
Other	Postgres, JQuery, SQL, REST, GIT Celery, AWS, ElasticSearch, Jenkins Markdown, Jenkins, Salt, Nginx

Keywords

Agile Development, Continuous Integration, Front-End, BackEnd, Design, Testing, Deployment

Key Projects

SMTP Server Design an Implementation

Osprey Informatics

Design and implementation of an smtp server using python and Twisted to parse emails received from cameras and forward content to backend. Server process aprox. 250 thousand emails a day coming from aprox. 500 cameras.

Tools: python, twisted

Reach's FrontEnd

Osprey Informatics

Contributed in the development of Osprey's main front end product which allows users to visualize imagery from their cameras, stream live and archived video, search for historical imagery applying certain filters and create and visualize reports generated by the system.

Tools: Javascript (ES6), Webpack, Babel, Angular 1, Karma, PhantomJS, Jenkins.

Support Application

Osprey Informatics

Developed front end application for operations internal use that would allow them to check for the camera's overall status, perform common tasks such as creating cameras and site models on the backend and create broadcast notifications for users

Tools: Javascript (ES6), Webpack, Babel, Angular 2, Karma.

Automated Prototype Security System for Vehicles controlled by an Android Smartphones

Thesis Project: Honourable Mention Award

Designed and developed a prototype security system for vehicles controlled by an smartphone application capable of localizing your vehicle, triggering an alert via a panic button and cutting the power of the vehicle remotely. The Android App would allow the user to share their vehicles location with the specified contacts and also, grant specific users the ability to turn off the vehicle remotely in case it was stolen.

Tools: Java, PHP, Arduino, Eclipse, Android SDK.

Computer Vision Toolkit

Osprey Informatics

Contributed in the design and development of a Django Micro-service to automatically build ground truth data of imagery so that it could easily be determined the production classification accuracy and have more data to train the classifiers.

Tools: Python, Django, Celery, AMQP, Postgres, AWS Mechanical Turk.

Backend Features

Osprey Informatics

Continuously developed and improved Osprey's product main backend which is in charge of managing hundreds of cameras and incoming requests from IoT devices and users. *Key Features*

- Messaging framework to alert users of events

- Data Usage Tracking

- Integration of Different Camera Models

- Development of RESTful API

- Event Handling and user notifications

- Nginx routing configuration

- SMS and Email notifications

- Multitenancy (multi database) system

Tools: Python, Django, Celery, AMQP, Postgres, AWS, Jenkins