

# Gylmar Alexander Moreno

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**OBJECTIVE** Produce algorithms and code that elegantly manage a large scale production system.

## PROJECT EXPERIENCE

### SPAWAR/SAIC - Deployment Process Engineering

2017-2018

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|------------|---|
| Virtualize | Using <i>VMWare</i> to launch minimal <i>RedHat</i> instances in a local lab network<br>Reducing the <i>service deployment</i> process and <i>preserving software architecture</i>  |
| Network    | Designed a <i>layer 3 dynamic network</i> configuration for proxies to route to new instances<br>Configured application firewalls for <i>increased network security</i><br><i>Isolated service testing</i> done by splicing local services into a functioning network |
| Scale      | Wrote <i>reusable</i> and <i>extendable</i> deployment scripts in <i>Ansible</i><br>Designed with <i>production</i> and <i>development</i> environments in mind   |

### Wotio - ETL Pipeline

2017

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|-----------|---|
| Ingestion | Built <i>Python</i> service to consume data from Wotio API and push to a <i>Kafka topic</i><br>Built <i>Python</i> service to consume data from Kafka topic and store to <i>Postgres database</i> |
| Schemas   | <i>Parameterized</i> schema to filter relevant subset of 100+ Wotio data parameters<br>Postgres schema easily extendable using <i>Alembic</i> library in <i>Python</i>                            |
| Deploy    | <i>Kubernetes</i> deployment of <i>Docker</i> images for each component of the pipeline   |
| Testing   | Built <i>NodeJS</i> service to <i>generate test data</i> using client-provided <i>JSON schema</i>   |

### RetailOps - Full Stack Development

2014-2016

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|------------|---|
| Javascript | Wrote <i>NodeJS</i> proxy media server to <i>reduce media traffic</i> directed at main servers<br><i>Front-end</i> application developed in <i>ExtJS</i> , a Javascript framework   |
| Backend    | <i>Extended backend API</i> using custom (undocumented) <i>Perl</i> library<br>Design and extension of <i>ORM models</i> for use in application business logic<br>Expanding <i>Elasticsearch results</i> to improve client search data exports    |
| Data       | Creation and extension of <i>MySQL</i> schemas used by backend code and client reports<br>Wrote powerful macros and regular expressions to <i>munge client data</i><br>Developed <i>client implementation process</i> for catalog data conversion |

## SKILLS

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|-----------|--|
| Personal  | Autonomous and collaborative • High and low level perspective • Unix command line master |
| Technical | Linux • GIT • VIM • TMUX • VMWare/VirtualBox • Kubernetes/Docker                         |
| Logical   | Algorithm Design • Numerical Analysis • Machine Learning • Data Visualization            |

## EDUCATION

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|-------------------------------------|---|
| University of California, San Diego | B.S. Computer Science - Mathematics                 |
| Class of 2013 - GPA 3.211           | B.S. Cognitive Science (Computation Specialization) |

**EXTRACURRICULAR** - Sailboat Cruising | Latin Dancing | Landscape & Portrait Photography