

Gylmar Alexander Moreno

Southern California | (323) 868-6980 | gylmar.a.moreno@gmail.com

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

PROJECT EXPERIENCE

SPAWAR/SAIC - Deployment Process Engineering

2017-2018

- | | |
|------------|---|
| Virtualize | Using <i>VMWare</i> to launch minimal <i>RedHat</i> instances in a local lab network
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
Configured application firewalls for <i>increased network security</i>
<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>
Designed with <i>production</i> and <i>development</i> environments in mind |

Wotio - ETL Pipeline

2017

- | | |
|-----------|---|
| Ingestion | Built <i>Python</i> service to consume data from Wotio API and push to a <i>Kafka topic</i>
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
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

- | | |
|------------|---|
| Javascript | Wrote <i>NodeJS</i> proxy media server to <i>reduce media traffic</i> directed at main servers
<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
Design and extension of <i>ORM models</i> for use in application business logic
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
Wrote powerful macros and regular expressions to <i>munge client data</i>
Developed <i>client implementation process</i> for catalog data conversion |

SKILLS

- | | |
|-----------|--|
| 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

- | | |
|-------------------------------------|---|
| 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