# Joel Mellon

Carlsbad, CA 92009 joelgmellon@gmail.com

## Software Engineer

#### Skillset

#### Linux

- Debian, Fedora, Gentoo
- Bash scripting, cron
- Git, Subversion
- sftp, scp, rsync

## Apache

- .htaccess
- mod rewrite
- VirtualHosts

#### **Databases**

- MySQL
- Elasticsearch
- MongoDB

#### PHP

- Object Oriented Prog.
- MVC architecture
- Zend, Laravel, Yii
- PHPUnit

#### HTML & CSS

- HTML5
- W<sub>3</sub>C standards

## **JavaScript**

- ES<sub>5</sub>, ES<sub>6</sub>
- DOM scripting
- XMLHttpRequest (AJAX)
- jQuery, React.js, Node.js

#### Python

- Flask RESTful
- SQL Alchemy

## DevOps

- Ansible
- Docker
- AWS (EC2, RDS, ELB)

#### Security

- XSS, CSRF
- Session Hijacking
- SQL Injection
- Cryptography

## Relevant Experience

Possesses 13+ years of experience in various areas of software development, including a concentration in client- and server-side web programming and related technologies. Designs and supports web-based applications in Linux development environments.

#### Software Architect

## Stealth Startup (Contract) — Carlsbad, CA 2018–2019

- Architected microservice oriented APIs using RESTful concepts Laravel
- Extended Laravel Queues to manage sequential operations and supervise task workers Illuminate, Supervisord
- Coded backend components to allocate virtual hardware resources employing blocking techniques to prevent resource misallocation VMware, Vagrant
- Championed a unit testing culture, contributed expertise into CI/CD practices, and implemented product management workflows — PHPUnit, GitLab, JIRA
- Exercised leadership with junior developers and QA technicians, and served as a bridge between department heads working closely with company officials

#### Senior Software Engineer

## Lettuce Box, Inc. — Carlsbad, CA 2017-2018

- Hand-wrote geospatial and temperature analysis algorithms integral to the real-time processing of millions of location and temperature data points per hour PHP (Yii2)
- Orchestrated the automated deployment and scaling of a containerized task queue subsystem responsible for offline processing across dozens of worker nodes — Docker, Amazon EC2
- Implemented build systems for automated testing in a continuous integration environment Drone.io, GitHub, PHPUnit
- Co-wrote and published a cross-platform, API based mobile app for Android and iOS

   React Native, Redux
- Employed Agile methodologies to lead project development JIRA

## Software Engineer

## ThreatSTOP — Carlsbad, CA 2015–2017

- Engineered a lightweight reporting API along side a high availability, horizontally scalable database architecture from proof of concept through full implementation — Python (Flask RESTful), Elasticsearch
- Developed client-side reporting tools to chart, filter, and aggregate metrics on billions of database documents React, Gulp, Plottable, DataTables
- Contributed to the automated deployment of development clusters in a continuous integration environment Ansible, Jenkins
- Coded unit and functional tests for a variety of projects, maximizing code coverage for core company products PhantomJS, Codeception, nose
- Maintained and improved legacy software products and internal systems PHP (Zend Framework 1 & 2), MySQL, MongoDB, Perl, C++

http://joelmellon.com/

#### Web Developer, Payment Gateway Specialist

#### InstaPAY International — Carlsbad, CA 2009-2015

- Lead an expert team of developers that designed and developed an online multiapplication system involving cross-browser compatible signature capture and serverside PDF generation — PHP (CodeIgniter MVC), MySQL, jQuery
- Specialized in payment gateway integration, working with corporate development teams to integrate payment processing into enterprise level accounting software — Various development environments, Sage CRM, AccPac, Mas 90, Sage 100 ERP

## Web Developer

#### WebAssist — La Jolla, CA 2008–2009

- Architected, developed, and maintained a revenue sharing e-commerce community
   PHP, MySQL, Adobe Flex 3
- Maintained an enhanced reporting web portal for Adobe Acrobat Connect Professional — Connect 7 API (CURL, XML), PHP, MySQL, MOOTools
- Demonstrated proficiency writing project specifications and documentation

## Web Developer

#### Admit One Products — Cardiff, CA 2006–2008

- Designed, developed, and maintained a back-end interface for online ticket sales, including reserved seating and 2D venue mapping PHP, MySQL, Prototype.js
- Created end-user tools for web page layout, design, and content management
- Helped maintain and support a custom, in-house Job Management System
- Administered Gentoo Linux development servers and machines
- QA assistant for Windows CE embedded bar code scanners
- Showed potential in design and implementation of business rules and data models

#### Education

## Palomar College 2002-2004

• Emphasis on Political Science and Economics

#### Valley Center High School Class of 2001

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