

Knowledgeable in architecture standards, engineering methodologies, redesign/refactoring processes, risk assessment/management, and security. Provides technical leadership, maintains high standards, and attention to detail. Also provides technical support for existing applications and application infrastructure (databases, configuration, security, etc). Knowledgeable in implementing CI/CD Pipelines deploying to different environments like AWS and VPS.

## Professional Experience

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### **Band of Hands - Senior Full-stack Developer**

**6/2019 - Present**

- Strategically improved the codebase and created new features by documenting business requirements and following the SDLC, OOP best practices, and SOLID principles.
- Documented and verbally shared the improvements that were being done incrementally to allow other developers to know the latest changes and how to contribute correctly.
- Upgraded Frontend codebase from AngularJS to Angular 8.
  - Researched the migration process to analyze the complexity and provided development estimates.
  - Proposed a plan to go through the update process while maintaining a production-ready application.
  - The plan consisted of 5 major steps and was executed successfully and on time.
- Improved our local environment by replacing 4 Vagrant boxes with 1 Docker custom-configured image resembling production.
- Improved security by implementing custom Laravel Requests for POST/PUT functionality. This change allows us to tight up parameter requirements and minimize internal conditionals.
- Incorporated an Access Control List(ACL) pattern on Laravel to authorize functionality based on roles. ACL also allows us to authorize users based on the role hierarchy.
- Upgraded Laravel application from version 4.2 to version 5.8. While upgrading Laravel, some third-party libraries were upgraded while some were removed.
- Upgraded PHP version from 5.X to 7.2. I also searched for deprecated functions and replaced them it the latest version or replicated the process.
- Reduced errors by integrating Slack into our logging process. Slack allows us to catch critical errors in real-time without the need of being logged into the server.
- Eliminated duplicated code by encapsulating functionality into objects and reusing it in other controllers.
- Implemented CI/CD Pipelines to improve our deployment process. In the process of implementation, I was able to remove third-party services and better leverage our existing tools. The CI/CD Pipeline consisted of automated testing and deployment to an AWS EC2 Staging and Production Environment.
- I put in place a new network infrastructure for subdomains with the use of AWS CloudFront and S3 Buckets.
- Improved codebase by constantly refactoring based on OOP best practices and SOLID principles. This ultimately allowed our codebase to be better maintainable, flexible, and less prone to errors due to changes.

- Did a complete facelift by implementing new Front-end designs and upgraded Bootstrap in the process.
- Improved our local environment by replacing 4 Vagrant Boxes with a custom configured Docker image. The Docker image contained a database, a network, and an apache server with SSL certificates. The docker image was also created to resemble the production environment.
- Structured second angular codebase using Feature Modules, Lazy Loading, and Access Control Level(ACL) functionality to improve speed, improve code reusability, and reduce logic functionality/conditionals in the Models.
- Creating a private Angular Service library that the Angular codebases shared to make HTTP requests to the API.
- Updated the Authentication/Authorization system while preventing breaking changes, maintaining the same function signatures, and maintaining the same JWT transactional(local storage, middleware, resolves, etc) functionality.

### **Construction Service Workers - Web Developer**

**2/2019 - 6/2019**

- Set up and configured network infrastructure with the use of servers, firewalls, and databases.
- Integrated Google Business Suite to send and receive emails.
- Performed Front-end validation with HTML5 and Javascript. For back-end validation, I used PHP and Regular Expression
- Using PHP and Laravel I created a School Administration Web application with CRUD functionality to automate the application process.
- I used MySQL to create a relational database structure in 3rd Normal Form(3NF) and with CMS capabilities. Achieved data integrity by implementing the correct data types and constraints.

### **OE Innovations - Freelance Fullstack Web Developer**

**2016 - 4/2019**

- Worked closely with clients to understand and define problems, requirements, dependencies, and possible solutions.
- Created and updated web applications using HTML, CSS, Bootstrap, Javascript, VueJS, PHP, and Third-Party APIs like Twilio, Mailchimp, Google Maps, etc.
- Created MVPs and used OOP and MVC Frameworks like Laravel and OctoberCMS.
- Created and configured networks and optimized relational databases with 3rd normal form(3NF) using Mysql.

## **Technical Skills**

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**Frontend:** HTML, CSS, SASS, Javascript/ECMAScript, AJAX, JSON, Angular

**Backend:** MySQL, PHP, Laravel, RESTful API's, NGINX, Apache, Linux, Amazon Web Services(AWS), Docker, Vagrant

**Tools:** Git, Grunt, Eloquent, Composer, NPM, CI/CD, Automated Testing, Webpack

**Methodologies:** Object-Oriented Programming(OOP), Model-View-Controller(MVC), Database Design, Design Patterns, Software Development Life Cycle(SDLC)

## **Education**

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San Joaquin High School

**08/2004 - 07/2008**

Georgia Institute of Technology - Database Systems Concepts and Design

**09/2017 - 12/2018**

## Links

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Github - <https://github.com/oestrada1001>

Portfolio - <https://www.oscar-estrada.com>

Tech Devs - <https://www.tech-devs.com>

Linkedin - <https://www.linkedin.com/in/oscar-estrada-6a7b58132/>