

# Brendan Koral

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## Technology Summary

- **Proficient:** REST APIs, Laravel, PHP, JavaScript, MySQL, Third party integrations, asynchronous programming, Amazon Web Services (ECS, S3, RDS), Digital Ocean (droplets, Redis/MySQL clusters), containers Docker/Vagrant, NodeJS, Express.js, Single Page Applications, Object Oriented Programming (OOP), Functional Programming
  - **Familiar:** Go, GraphQL, Python3
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## Experience

### Clover Learning (subsidiary of Ascend Learning) Senior Backend Software Engineer

#### July 2023 – Present

- Full-stack feature development for a Laravel project with infrastructure hosted on Amazon Web Services
- Immediately implemented optimizations at the database- and software-level to improve platform speed and reliability, reducing platform error rate by over 70%
- As a technical lead, worked with the project manager, designer, and front end developers to plan, prioritize, and develop projects
- Created a course launch sheet import process that streamlines content import for the creative team, reducing time spent adding content to the platform by over 95%
- Developed and maintained an integration with Wistia video hosting platform, ensuring that unused content was moved to an archived status when it was unused, reducing monthly costs by nearly \$5,000
- Created a series of jobs that trimmed 60 seconds from each lesson video for the marketing website, reducing efforts from the video team and saving roughly \$200 per video
- Maintained a custom Stripe integration to handle subscriptions to the platform
- Assisted in creating and maintaining an API for a bespoke reporting platform written in C#/.NET 8
- Developed and maintained a custom integration for a CRM, Pipedrive, reducing the

time required for various sales tasks from hours to minutes

**SupplyStream, Inc. Back End Developer** Oct. 2021 – July 2023

- Backend feature development for a Laravel and Laravel Lumen project hosted on Digital Ocean
- Created jobs to automatically synchronize MySQL database and 3rd party eCommerce platform
- Wrote and maintained various custom jobs dispatched to Horizon queues, others handled via crontab
- Wrote vanilla MySQL queries used to monitor data integrity via BetterUpTime
- Wrote MySQL triggers to ensure data integrity on CRUD operations
- Wrote custom Artisan commands to prune images from S3 and the database
- Created custom Docker images and BitBucket pipelines, speeding up tests by 40%
- Wrote custom pipelines to automatically verify and quickly deploy NGINX, HAProxy, and Supervisor config files in all environments
- Utilized Redis pub/sub features to handle communication between two APIs
- Created a custom mail driver in Laravel to handle multiple sending domains in MailGun
- Created a custom Laravel facade to easily dispatch Slack notifications
- Testing handled via PHPUnit, Laravel's built-in tools, as well as a custom test suite using built-in PHP PDO interface for testing MySQL triggers and procedures

**Straight North Full Stack Developer**

**May 2021 – Oct. 2021**

- Develop new features for a proprietary reporting platform, built using Laravel and VueJS
- Build custom website features for clients using WordPress sites on an as-needed basis
- Created jobs to prune outdated assets and other documents from the platform

**Adtalem Global Education Full Stack Developer/Programmer Analyst**

**May 2019 – May 2021**

- Wrote and maintained custom Drupal modules in PHP that fetched and displayed stock data for the company website, as well as third party integrations
- Implement automated testing using PHPUnit, Behat, TestCafe (JavaScript), and New Relic monitor scripts (NodeJS)
- Develop and manage a CLI tool written in NodeJS that checked for broken URLs on each Adtalem site to help catch errors caused by failed database migrations
- Write SCSS to implement front end changes on sites built in Drupal
- Resolve pre- and post-launch accessibility issues on sites to ensure ADA Accessibility Guideline compliance

- Coach and teach junior developers new ES6 JavaScript and PHP language features
- Evaluate and refactor JavaScript code in ReactJS, VueJS, and NodeJS projects

### **Dealer Inspire Platform Feature Developer - Internal Tooling**

**August 2016 – May 2019**

- Full stack developer on an Agile team focusing on tooling to reduce time spent on internal projects
- Developed a tool written in PHP and ReactJS that allows SEO Specialists to update SEO meta information on multiple pages at a time, reducing time spent on each site from 3 hours to about 30 min, an 84% savings

### **Developer - Major Accounts/VIP Team**

**January 2018 – May 2019**

- Full stack developer for high profile clients, including Fletcher Jones, Ken Garff Auto Group, and Penske Auto group
- Developed Armada, a WordPress plugin designed to centralize and stabilize code for group sites, which reduced deploy time by 92% and issue-related support tickets by 68%
- Developed Polaris, an internal application powered by Docker, VueJS, NodeJS, Express, and secured with Auth0 that interacts with Armada, allowing Performance Managers to retrieve information about each site
- Co-founded and taught at CodeU, a weekly introductory class to HTML, CSS, and JavaScript

### **Front End Developer (August 2016 – January 2018)**

- Completed custom requests for client websites, including new features and optimizations
- Handled internal and external requests as well as direct communication with clients
- Bug fixing as necessary

### **Software Developer, AT&T**

**May 2016 – August 2016**

- As part of an Agile team, developed new workflows to aid customer service representatives in properly diagnosing and solving customer problems in more efficient manners
- Implemented custom styling on the front end of the SASHA tool using HTML, CSS and jQuery
- Using direct feedback from the customer service team, resolved incorrect workflow

logic written in JUEL as well as debug HTML, CSS and JavaScript code

- Utilized MySQL databases to efficiently add, remove and modify support ticket data
- Assisted in quality assurance and release testing, allowing the team to include additional fixes during software release

## **Front End Web Developer, Synergy Marketing Partners**

**January 2016 – March 2016**

- Immediately took responsibility for building, launching and maintaining more than fifty landing pages for GMC and Chevrolet using Twitter Bootstrap 3, Twig, MySQL, and PHP
- Reported to CEO on regular basis regarding status of landing pages
- Established immediate relationships with clients; customized Bootstrap and Twig templates to meet their vision through flexible and timely adjustments
- Using MySQL, performed immediate and on-demand maintenance of daily nationwide vehicle purchase incentives
- Crafted information bars on Chevrolet Local Market Association vehicle pages using custom HTML and Bootstrap classes
- Made minor text translations to Spanish
- Using MySQL, created portals to streamline attendee registration for nationwide auto shows
- Generated bar codes for auto show tickets based on Local Market Association request using MySQL

## **Freelance Web Designer, One Body Fitness**

**June 2015 – Present**

- Maintain website by updating pages with new content, services and equipment using HTML and CSS
- Significantly improved website flow by removing and adjusting legacy code
- Updated pages using CSS for better mobile compatibility
- WordPress customization to help website elements mesh more cleanly
- Ongoing discussion with the owner to plan a full website redesign with a focus on mobile compatibility utilizing Twitter Bootstrap 3

## **Junior Web Developer, KLS Edition/Ocean Tomo LLC**

**June 2014 – January 2016**

- Working directly with the CTO, delivered revision of company website two weeks ahead of schedule
- Assisted with page creation, fixing of broken URLs, modifying CSS, and correcting general formatting errors
- Streamlined method of updating author information on blogposts by learning to use

Ruby

- Maintain company website by frequently updating content and fixing inconsistent formatting styles caused by legacy HTML
  - Ghost write blog posts and web content on a wide scope of topics including 3D printing, semiconductors, and cloud computing
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## Projects

- **3D Print Warehouse:** A website for people to upload and discover new 3D print models; built with Laravel 8, Breeze, Tailwind CSS, AWS S3, Postmark, and Forge
  - **Null World Productions:** Handle front end work in JavaScript and SCSS (ReactJS, GatsbyJS); Manage infrastructure using Hashicorp products (Vault, Terraform, Nomad) and AWS
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## Education

### Marquette University, Milwaukee, WI

- Bachelor of Science Degree in Public Relations, minor in Psychology