David Hernandez   Software Engineer

I am a software engineer with 15 years of professional experience developing complicated full-stack applications. Able to construct scalable, reliable apps by combining PHP, Laravel, Angular, React, and other technologies. Excellent at working with cross-functionalteams to ensure efficient project execution and communication.
Committed to meeting and exceeding customer expectations with high-quality software solutions.

KEY SKILLS

Programming Languages
- PHP, JavaScript, TypeScript, Python, HTML/CSS

Cloud Services
- AWS EC2, S3, SNS, SQS, Opensearch, Lambda, API Gateway, Cloudwatch, ECS, EKS
- Azure Blob Storage, Azure Virtual Machines (AVM), Azure Container Service (AKS), Azure Queue Storage
- GCP Cloud Run, Cloud Functions

Frameworks / Libraries
- Laravel, Symforny, CodeIgniter, Yii, CakePHP, Drupal, Wordpress, Artisan, Angular, React, RabbitMQ, Elasticsearch

Developer IDEs
- PHPStorm, VS Code, PyCharm

Version Control
- Git, SVN

Databases
- DB2, Oracle, MySQL, PostgreSQL, MongoDB, Redis

DevOps
- Jenkins, Github Actions, GitLab CI/CD, Ansible, Terraform, AWS CloudFormation, Helm

Architecture & Design Patterns
- MVC, MVP, Factory, Facade, Decorator, Builder, Singleton, Adapter

Testing
- PHPUnit, Pest, Jest, Selenium, Playwright, Postman

WORK HISTORY

Senior Software Engineer   09/2021 – Present
Vegas.com

- Improved the first page load times by 15% by leveraging SSR and improving server response times with Next.js, and GraphQL.
- Collaborated with a cross-functional team to develop and maintain a ticket selling and affiliate system application using PHP 8, Laravel and MySQL.
- Integrated event-driven architecture with microservices implementing event sourcing and CQRS.
- Utilized unit testing frameworks like Pest and PHPUnit to achieve 90% code coverage, ensuring the reliability and stability of the software.
- Designed and developed front-end components using React, Angular, JavaScript, HTML5, and CSS3 to enhance the user interface and overall user experience.
- Implemented Elasticsearch to improve search capabilities, resulting in a 20% increase in highly efficient and accurate search results for users.
- Containerized all microservices using Docker, and deployed Docker images to AWS ECR.
- Implemented authentication and authorization using JWT, OAuth2 and OpenID.
- Leveraged Kubernetes to deploy and manage web services on AWS EKS for efficient and scalable development.
- Integrated code changes, test code changes, and document code changes using tools like Git, JIRA, and Confluence.
- Participated in the campaigns for data analysis and on-call prod support by using Datadog, and Sentry.

Senior Software Engineer
Egen

08/2018 – 07/2021

- Designed and developed RESTful APIs using Node.js, Express, Nest, PHP, Laravel, MongoDB, PostgresSQL, MySQL, Redis, Amazon Web Services, Microsoft Azure and Google Cloud Platform and Firebase.
- Implemented a real-time tracking and communication functionalities using Web Socket technology.
- Created a single sign-on (SSO) solution that allows clients to access various services with just one password, improving the platform's security and convenience.
- Improved application's performance by 60% through analyzing/optimizing Hibernate queries, denormalizing data, and adding caching mechanisms.
- Designed and implemented the UI using Angular Components, Directives, and Services and used Angular Material to create a consistent and responsive design.
- Utilized Jenkins for the deployment of microservices, automating the development and deployment procedures to lower failures and increase overall effectiveness.
- Continually assessed and improved the application's performance, pinpointing problem areas and carrying out necessary changes.
- Captured the best development practices that helped to decrease code complexity and improve the maintainability of the shared libraries and components.

Software Engineer
Amazon Web Services

02/2016 – 07/2018

- Designed and developed individual components of the faulty detection and remediation system that are efficient, reliable and stable under abnormal situations such as partial network loss and hardware failure.
- Optimized querying in GraphQL using React Apollo and refactored queries to use fragments and In-Memory Cache, reducing number of bugs by 25%.
- Refactored previous codebase from ES6 version to TypeScript, resulting in a 30% increase in overall team productivity and improving system reliability by 15%.
- Built a data stream pipeline using Logstash, and Elasticsearch to provide areporting solution.
- Wrote test cases using the PHPUnit framework to validate the application flows in differentscenarios.
- Implemented social authentication with Twitter, Google, and Discord to help users sign up and log in easily.
- Identified and fixed a memory leak resulting in improved user experience by preventing the occurrence of intermittent Out of Memory errors.

Software Engineer
Verizon

03/2013 – 01/2016

- Utilized PHP, Bootstrap, JavaScript, JQuery, HTML, CSS to build the presentationlayer with a user-friendly and responsive interface.
- Handled programming tasks and maintained internal websites with a high success rate of 98% in product update deployment.
- Developed a new UI for website landing pages using JavaScript and designed HTML/CSS email templates, increasing email signups by 9%.
- Leveraged AWS EC2 for deploying the web-based application ensuring reliable uptime and performance.
- Collaborated with an agile team to migrate a legacy web application to AngularJS, SCSS, and HTML5.
- Documented application functionality, features, and maintenance processes to aid in future development efforts and streamline team member knowledge sharing.

Software Engineer   01/2010 – 02/2013

iPromote

- Collaborated with a team of developers to build a responsive, user-friendly UI using HTML, CSS, Javascript, Bootstrap, jQuery.
- Implemented REST APIs to integrate the frontend with the backend services, ensuring seamless data flow and improved performance using PHP, Laravel.
- Build a secure and efficient data storage and retrieval system using PostgreSQL, AWS S3, enabling users to retrieve their data quickly and securely.
- Optimized application security by implementing authentication and authorization protocols.
- Used cloud services such as AWS and Azure to improve the performance and security of the web application.
- Participated positively in all stage of SDLC and maintained best practice procedures.
- Documented application functionalities, features, and maintenance processes to aid in future development efforts and streamline team member knowledge sharing.

EDUCATION

- **Miami Dade College**
  Bachelor of Science (B.S.) in Computer Science
  01/2006 – 12/2009

- **Universidad Antonio Nariño**
  01/1990 – 11/1997