KARL HILL

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FULL STACK ENGINEER

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Over 20 Years Developing Sophisticated Solutions with Dramatic Impact on Business Outcomes

Full stack engineer proven in executing the software development lifecycle (SDLC) in Agile, consumer-facing environments. Subject matter expert in deploying responsive, mobile-first solutions against aggressive project requirements. Highly collaborative communicator skilled in building positive relationships across business functions to drive development.

- SDLC Processes & Execution
- Agile Development
- Cloud-Based Solutions
- UX / UI Development
- Cost Savings & Control
- Technical Troubleshooting
- Project Management
- Executive Collaboration
- Team Training & Leadership

PROFESSIONAL EXPERIENCE

SENIOR FULL STACK ENGINEER, 2017 – Present, Science Systems and Applications, Inc. (SSAI), Greenbelt, MD

Responsible for the development of applications at NASA and NOAA utilizing Laravel and related ecosystem technologies. Maintained proprietary and third-party CMS and developed web services for distributing NASA Earth science content.

- Developed content registry application using Laravel and Apache Nutch to crawl a subset of NASA URLs for daily discovery of new online Earth Science content.
- Supported NOAA STAR's development efforts to assess the impact of future, emerging and contemporary satellite-derived observations on environmental data products and numerical models.

LEAD LARAVEL DEVELOPER, 2016 – 2017, InformedDNA, St. Petersburg, FL

Drive full SDLC of Laravel, LAMP applications, and APIs to support company objectives, with responsibility for completing projects on time & budget. Reviewed technical feasibility, worked with team to develop timelines for features.

- Developed a case management application for health professionals while saving roughly $75K by completing UX/UI work independently; executed all application development processes from ground-up.
- Increased use with new application by more than 25% and eliminated multiple DB instances using custom APIs.

SENIOR CONSULTANT, 2012 – 2015, Ticomix, Inc., Washington, DC

Developed custom SugarCRM PHP-based solutions from ground-up in adherence with project requirements. Built modules & connectors to meet client requirements for enhancing software. Collaborated across teams to ensure compliance.

- Produced a client application to help with prospecting and sharing qualified leads for sales professionals.
- Improved product quality for client by reducing defect backlog from hundreds to 25 visible defects at launch.
- Designed, developed and supported applications for over 20 clients in a fast-paced environment.

SOFTWARE DEVELOPER, 2010 – 2012, Sabre Corporation, Bethesda, MD

Developed and enhanced PHP-based applications and sites in a fast-paced environment, meeting requirements in performance, and reliability for 5+ of the largest global airline, hotel, and travel agency customers

- Recognized as engaging, responsive mentor of junior developers and new hires.

*Additional roles include **Senior Software Engineer** for **Verizon**, **Dante Inc**, **Visitar,** and **Advantage Industries** plus current volunteer positions at **Friendship Place** and **The Renwick Gallery of the Smithsonian American Art Museum**.*

EDUCATION

Computer Science - University of Maryland
Associate of Arts (A.A.), General Studies - Howard Community College
Certificate in Project Management - Rutgers University

TECHNICAL EXPERTISE

Laravel, PHP, PHPUnit, TDD, Apache, LAMP, MySQL, MariaDB, Symfony, Webpack, NPM, OOP, HTML5, CSS3, SASS, JavaScript, jQuery, Vue.js, Bootstrap, MVC, Git, GitHub/GitLab, APIs, REST, JSON, UX/UI, Agile, Scrum, Java, JSF, SugarCRM, WordPress, Drupal, Apache Nutch, ElasticSearch, AWS (Amazon Web Services), Atlassian: (JIRA, Confluence, Bitbucket), Composer, Bash, Shell