

KARL HILL

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SR. SOFTWARE ENGINEER

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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
- Object-Oriented Design
- Cloud-Based Solutions
- Agile Development
- UX / UI Development
- Technology Implementation
- Technical Troubleshooting
- Cost Savings & Control
- Project Management
- Executive Collaboration
- Team Training & Leadership
- Strategic Communications

PROFESSIONAL EXPERIENCE

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

Responsible for the development of applications at NASA Earth Observatory utilizing Laravel and related ecosystem technologies. I maintain proprietary and third-party CMS and develop web services for distributing NASA Earth science content.

- Implement new applications and solutions using Laravel PHP MVC framework.
- Launch of complete redesign and architecture of NASA Earth Observatory high-trafficked website.

SENIOR SOFTWARE ENGINEER, 2016 – 2017, InformedDNA, St. Petersburg, FL

Drive full software lifecycle development of multiple LAMP applications and APIs to support company objectives, with responsibility for completing projects on time & budget. Reviewed technical feasibility and worked with team to develop timelines for feature requests.

- Developed healthcare case management application for physicians, nurses and other practitioners while saving roughly \$90K 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.

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

Developed PHP-based applications in fast-paced environment, meeting requirements in performance, reliability and of Sabre's PHP applications.

- Developed and enhanced sites and applications 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 **Software Developer for Verizon Enterprise Solutions, Principal at Dante, Inc, Sr. Software Engineer for Advantage Industries** and current volunteer position at **Smithsonian's Renwick Gallery**.*

EDUCATION

Computer Science - University of Maryland

Associate of Arts (A.A.), General Studies - Howard Community College

Certificate in Project Management - Rutgers University

TECHNICAL EXPERTISE

LAMP, Apache, MySQL, MariaDB, PHP, Laravel, Symfony, Webpack, NPM, OOP, HTML5, CSS3, SASS, JavaScript, jQuery, Bootstrap, MVC, Git, GitHub, AWS, REST, JSON, UX/UI, Agile, Scrum, Java, JSF, SugarCRM, JIRA, WordPress, Drupal, Composer, Bash, Shell