KARL HILL

Washington, DC 20008 | (202) 599-1442

SENIOR FULL STACK ENGINEER

karlhillx@gmail.com | **linkedin.com/in/khill**

SOFTWARE ENGINEER OF 20+ YEARS WITH LEADERSHIP STRENGTHS

- SDLC Processes & Execution
- Object-Oriented Design
- Agile Development
- Cloud-Based Solutions

- UX / UI Development
- Technology Implementation
- Technical Troubleshooting
- Cost Savings & Control

- Project Management
- Executive Collaboration
- Team Training & Leadership
- Strategic Communications

EXPERIENCE

SENIOR FULL STACK ENGINEER, NASA, 2017 – Present, Science Systems and Applications, Inc. (SSAI), Greenbelt, MD
- Built an automated content registry application for NASA Earth Observatory that crawls NASA domains to discover new online earth science content enriching internal data and increasing research efficiency by 40%.
- Overhauled the award-winning earthobservatory.nasa.gov, a public, high-traffic website with roughly 1.5 million monthly hits; streamlined site for improved performance, usability, user experience, and overall SEO.
- Spearheaded redevelopment of internal admin systems utilized by ten employees, improving functionality/reliability.
- Authored business requirements for a NASA Direct Readout Laboratory application, led requirements elicitation sessions, solution assessment, use cases, wireframes, and interface/functionality mock-ups.

SENIOR LARAVEL DEVELOPER, 2016 – 2017, InformedDNA, St. Petersburg, FL
- Coded and architected a Laravel framework-based case management application for medical professionals, resulting in better usability of the previous application and saving roughly $35K in UX/UI work.
- Expanded use with the new application and eliminated the need for three DB instances using custom APIs.
- Led development of features for the company's customer relationship management product, accelerated revenue by 15%.
- Coordinated upgrades and maintenance to ensure security, including patching and backups, to avert downtime costs.

SENIOR CONSULTANT, 2012 – 2015, Ticomix, Inc., Washington, DC
- Implemented custom CRM applications for over 20 clients, including VDOT (Virginia Department of Transportation), Washington Redskins, and Kastle Systems, providing advanced functionality for new/existing features and amplifying sales.
- Reduced defect backlog from hundreds to 25 at launch, boosting product quality while maintaining a high customer satisfaction rating and reducing support costs for a top-tier client.
- Created application to help companies identify qualified business opportunities, saving thousands vs. alternative solutions.

SOFTWARE DEVELOPER, 2010 – 2012, Sabre Corporation, Bethesda, MD
- Developed and enhanced PHP applications in a fast-paced environment, meeting performance and reliability for five of the largest global airline, hotel, and travel agency clients.
- Liaised with marketing to drive email and social media advertising, using modeling to predict revenue.
- Mentored three junior developers and new hires, helping them improve skills and grow professionally (improving retention).
- Established code review sessions to ensure that software is up to standards and best practices, increasing overall quality.

*Additional roles as **Senior Software Engineer** at **Verizon, Dante Inc, Visitar,** and **Advantage Industries,**
plus two current volunteer developer positions at **Friendship Place** and **NYC Mentors.org**.*

EDUCATION

Bachelor of Science (BS), Computer Science coursework - University of MD Baltimore County, Baltimore, MD
Associate of Arts (AA), General Studies - Howard Community College, Columbia, MD
Certificate in Project Management - Rutgers University, Camden, NJ

SKILLS

Laravel, PHP, PHPUnit, TDD, Apache, Tomcat, LAMP, MySQL, MariaDB, PostgreSQL, Oracle, Microsoft SQL Server, MVC, Webpack, Bootstrap, Tailwind CSS, NPM, OOP, HTML5, CSS, SASS, JavaScript, AJAX, jQuery, Vue.js, Node, Git, GitHub/GitLab, Subversion SVN, REST APIs, JSON, UX/UI, Agile, Scrum, Java, JSF, SugarCRM, WordPress, Drupal, Apache Nutch, ElasticSearch, Docker, Kubernetes, AWS (Amazon Web Services), Atlassian Suite: (JIRA, Confluence), Composer, Bash & Shell scripting