Karl Hill

SENIOR FULL STACK SOFTWARE ENGINEER

Summary

Senior technology leader with over 20 years of experience spearheading, developing, and deploying Agile solutions. Exhibits proficiency in client engagement, comprehending requirements, and delivering solutions. Proficient in full-stack engineering, working across diverse industries. Known for strategic planning, team leadership, and a commitment to staying abreast of the latest trends and technologies.

Professional Experience

Sr. Software Engineer, Science Systems and Applications, Inc (SSAI), Lanham, MD

DECEMBER 2017 — PRESENT

- Overhauled earthobservatory.nasa.gov, a public, high-traffic website with roughly 1.5 million monthly hits, enhancing performance, usability, and SEO.
- Implemented cloud solutions, increasing application scalability and performance by 40% in 6 months.
- Redesigned NASA Earth Observatory's Laravel-based internal admin systems, increasing functionality by 100% and reliability by 50%.
- Spearheaded an automated content registry, improving data collection by 60%.
- Guided software teams through Scrum ceremonies and agile best practices, enhancing team efficiency and project delivery.
- Collaborated with teams to ensure the smooth integration of new features.

Sr. Software Engineer, InformedDNA, St. Petersburg, FL

JANUARY 2016 — DECEMBER 2017

- Architected a Laravel-based case management application for healthcare professionals, including UI/UX design, saving $30K in extra expenses.
- Engineered CRM enhancements, improving customer service and contributing 15% to revenue growth.
- Introduced custom APIs, eliminating 3 DB instances and optimizing DB usage.
- Managed system upgrades and maintenance, bolstering security and system availability, resulting in a twofold decrease in security incidents.

Sr. Software Engineer, Ticomix, Inc., Washington, D.C.

JUNE 2012 — MARCH 2015

- Crafted SugarCRM applications for 20+ clients (VDOT, Redskins, Kastle), leading to an increase in efficiency and productivity across sales departments.
- Reduced defect backlog from hundreds to 25 at launch, enhancing product quality and customer satisfaction for a premier client.
- Created an application to assist companies in identifying business opportunities.
- Collaborated in a 10-person distributed team, demonstrating strong remote working capabilities.

Software Engineer, Sabre Corporation, Bethesda, MD

JULY 2010 — JUNE 2012

- Built and optimized PHP applications for 5 top global travel clients, improving customer satisfaction and overall user experience.
- Translated client needs into detailed technical specifications, guiding the development of customized solutions aligned with client objectives.
- Boosted advertising revenue through data-driven collaboration with marketing.

Details

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Links

https://www.linkedin.com/in/khill/

https://karlhill.com

Skills

Agile Methodologies

Team Leadership

SDLC Processes & Execution

Object-Oriented Design

Test-Driven Development

Technical Problem Solving

Cloud-Native Solutions

UX / UI Development

Stakeholder Engagement

Cross-Functional Collaboration

- Mentored junior developers, fostering an environment of continuous growth and skill enhancement.

Principal Software Engineer, Dante Inc., Arlington, VA

MAY 2007 — JUNE 2010

- Developed Java solutions using open-source technologies for high-profile clients, such as Comcast and Mastercard, enhancing operational efficiency.
- Played a pivotal role in a Scrum team, delivering key features and conducting thorough tests for optimal performance.
- Regularly performed unit and acceptance tests for near-perfect software.

Sr. Software Engineer, Visitar, Inc., Reston, VA

JANUARY 2006 — FEBRUARY 2007

- Collaborated on a Java-based telephony application with Asterisk integration, enhancing SugarCRM with features such as ACD, call routing, web-based IVR, and voicemail, resulting in an improved customer service experience.
- Engineered a CRM telephony component using Flash/ActionScript, optimizing call management and handling over 1000 daily customer interactions.
- Rapidly identified and resolved technical issues, maintaining smooth operations and achieving a 99% reduction in system downtime.

Software Developer, Verizon Business, Herndon, VA

NOVEMBER 1999 — MARCH 2005

- Instrumental in building NetSec's managed security-services platform, Finium, leading to a tenfold increase in client engagements, a prestigious presentation at Gartner and MCI's posthumous acquisition of NetSec for $105m.
- Key contributor to a 7+ person Java agile team, transitioning from initial XP and waterfall methodologies to Scrum, leading to increased quality.
- Developed Finium's internal admin systems using PHP and Java, while adhering to best coding practices and design patterns.

Education

BS, Computer Science coursework, University of Maryland

AA, General Studies, Howard Community College

Certifications

Certified ScrumMaster (CSM), Scrum Alliance

Project Management, Rutgers University

Skills

Languages: PHP, Java, Perl, Python, SQL, JavaScript, HTML/CSS, Bash

Frameworks: Laravel, Tailwind CSS, Bootstrap, Livewire, PHPUnit

Platforms: WordPress, Drupal, Amazon Web Services (AWS), Docker, LAMP

Tools: PHPStorm, Git, GitLab CI/CD, NPM, Composer, Apache, Nginx, Vite, Jira

Storage: MySQL, MariaDB, PostgreSQL, Oracle, SQL Server, JSON, Elasticsearch

Libraries/APIs: jQuery, REST APIs, Node.js