Karl Hill

SENIOR FULL STACK SOFTWARE ENGINEER

Summary

Senior technology leader with over 20 years of experience spearheading, developing, and deploying solutions in Agile environments. Exhibited proficiency in client engagement, comprehending requirements, and delivering tailored 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 industry trends and technologies.

Professional Experience

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

DECEMBER 2017 — PRESENT

- Guided software teams through Scrum ceremonies and agile best practices.
- Collaborated with teams to ensure the smooth integration of new features.
- Implemented cloud solutions, boosting application scalability and performance.
- Developed an automated content registry, improving data collection.
- Overhauled earthobservatory.nasa.gov, enhancing performance, usability, and SEO.
- Redesigned NASA Earth Observatory's internal admin systems, increasing functionality and reliability.

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

JANUARY 2016 — DECEMBER 2017

- Architected a healthcare case management application, including UI design, resulting in cost savings.
- Introduced custom APIs, optimizing database usage.
- Engineered CRM enhancements, contributing to significant revenue growth.
- Debugged software, identified root causes, and proposed solutions to software issues.
- Managed system upgrades and maintenance, bolstering security and system availability.

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

JUNE 2012 — MARCH 2015

- Engineered custom CRM applications for 20+ clients (VDOT, Redskins, Kastle), enhancing sales.
- Reduced defect management, improving product quality and customer satisfaction.
- Developed an application to assist companies in identifying business opportunities.
- Collaborated in a distributed team, demonstrating strong remote working capabilities.

Software Engineer, Sabre Corporation, Bethesda, MD

JULY 2010 — JUNE 2012

- Built and optimized PHP applications for global travel clients, enhancing customer satisfaction.
- Translated client needs into technical requirements for tailored solutions.
- 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

Cloud-based Solutions

Test-Driven Development

Service-Oriented Architecture

Multi-tier Architecture

Object-Oriented Design

- Mentored junior developers, promoting continuous learning and improvement.

Principal Software Engineer, Dante, Inc., Arlington, VA

MAY 2007 — JUNE 2010

- Developed Java solutions for high-profile clients (Comcast, Mastercard) using open-source technologies.
- Worked on TaylorMDA, an Eclipse-based tool, boosting product revenue.
- Routinely conducted unit and acceptance tests for high-quality software solutions.
- Participated in a Scrum team, delivering key features and conducting tests.

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

JANUARY 2006 — FEBRUARY 2007

- Co-developed a Java telephony application with Asterisk platform integration.
- Enabled SugarCRM telephony with ACD, call routing, web-based IVR, and voicemail.
- Constructed a Flash/ActionScript-based telephony component for CRM, enhancing call management.
- Troubleshot and resolved technical issues promptly, ensuring smooth operations and minimal downtime.

Software Developer, Verizon Business, Herndon, VA

NOVEMBER 1999 — MARCH 2005

- Instrumental in building NetSec's managed security-services platform, Finium.
- The success of Finium led to a presentation at Gartner.
- The platform's success also led to MCI's posthumous acquisition of NetSec for $105m.
- Experienced a transition from initial XP and waterfall methodologies to Scrum.
- Developed admin systems using PHP in addition to working with Java.
- Key contributor in a seven-person Java agile team.

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