

Vern Six

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Principal Software Engineer

With 18+ years as a Principal Software Engineer and API Integration Specialist, I've led complex web portal developments, achieving a 70% increase in business efficiency in 1 year. Specialized in Event Sourcing, micro-services, API development and integration, database design (MySQL, Oracle, SqlServer, Mongo, EventStoreDB) and large-scale migrations, ensuring data integrity. Proven expertise in eCommerce, logistics, and IoT integrations.

Key Career Strengths:

- **Technical Leadership:** Expert in full-stack software development, with a strong command of technologies such as PHP, JavaScript, Node.JS, Python, and Flutter, complemented by a deep understanding of Linux server management and cloud platforms (AWS, GCP, Azure). Advanced experience in designing and applying event sourcing patterns, elevating system scalability, and facilitating complex data management and temporal queries.
- **Strategic Project Management:** Demonstrated ability in driving projects forward, adept in Agile methodologies, and skilled in using tools like Jira and Trello to keep projects on track.
- **Effective Team Collaboration:** Committed to fostering teamwork, managing cross-functional resources efficiently, and enhancing communication among stakeholders while planning for and managing risks throughout project life cycles.
- **Adaptable and Analytical:** Excel at adapting to evolving project scopes, leveraging analytical skills to tackle challenges, and maintaining a focus on business processes and IT service management.
- **Mentorship and Development:** Committed to the mentorship of team members, fostering a culture of continuous learning and professional growth, enhancing team capabilities and project outcomes. Introduced team members to event sourcing concepts and practices, guiding them in understanding and implementing these architectures to build more resilient and scalable applications.

Core Technology Skills:

- **Cloud Technologies:** Experience in working with AWS, GCP, and Azure, utilizing cloud infrastructure for developing and supporting scalable, resilient applications.
- **Principal Full-Stack Software Engineer:** Skilled in PHP, JavaScript, NodeJS, Python. Expertise in building and architecting robust, scalable web applications using modern frameworks and technologies, including the implementation of event sourcing patterns to enhance system resilience and enable precise historical data analysis. Proficient in many PHP MVC frameworks including Kohana, Laravel, CodeIgniter, and Itsy. Authored numerous PHP frameworks tailored to specific client needs.
- **Database Management and Event Sourcing:** Strong background in MySQL, MS-SQL, MongoDB, Redis, Cassandra and implementing event sourcing architectures. Proficient in designing, managing databases, and utilizing both SQL and NoSQL platforms to build highly scalable, auditable systems with temporal query capabilities.
- **Linux Administration:** Very experienced in managing and configuring Linux servers, ensuring high availability, performance tuning, and security compliance.
- **eCommerce Solutions:** Deep understanding of eCommerce platforms such as WooCommerce, Magento, including integration of various payment gateways and custom eCommerce solution development.

PROFESSIONAL EXPERIENCE

Innovation Solved (Client: Rotech Healthcare, Inc.)

March 2024 - Present

Principal Software Engineer and Healthcare API Integration Expert

I have led the transformation and modernization of key patient eligibility and billing systems for Rotech Healthcare. My role includes architecting robust solutions, modernizing legacy systems, and ensuring seamless API integrations to support efficient operations within the diabetic healthcare division. I work closely with cross-functional teams to maintain high standards of patient care and system compliance.

- Led the transformation and modernization of key payment systems for Rotech Healthcare. Architecting robust solutions, modernizing legacy systems, and ensuring seamless API integrations to support efficient operations within the diabetic healthcare division. Work closely with cross-functional teams to maintain high standards of patient care and system compliance.
- Spearheaded the migration of the durable medical equipment patient eligibility modules from Change Healthcare to Waystar, ensuring a seamless transition and improved system performance.
- Enhanced an outdated system initially developed with PHP MVC frameworks Kohana and CodeIgniter using Twig for templating. Implemented changes to integrate with Waystar, enabling multiple month prescription dispensing and billing, and developing the integration to Waystar's API for patient eligibility checks, streamlining patient billing and payments, and enhancing functionality and user experience.
- Conducted extensive API integrations, streamlining processes and improving efficiency for the diabetic healthcare division.
- Worked closely with various teams at Rotech Healthcare to ensure the new eligibility and billing modules and systems met the high standards required for patient care and compliance within the medical field.

Customer Paradigm (Client: Watchpoint Logistics, Inc.)

June 2020 - February 2024

Principal Software Engineer and API Integration Specialist

Spearheaded the development of a web portal dedicated to creating and tracking international cargo shipments using the CargoWise SaaS and Nimbelink IoT tracking devices placed on cargo containers, incorporating event sourcing methodologies to ensure accurate, real-time tracking and historical data analysis capabilities.

- Led development of a PHP/NodeJS based web portal for tracking CargoWise shipments, implementing event sourcing to capture and replay shipment events for enhanced data integrity and auditability.
- Designed and developed a custom PHP micro-framework to enhance efficiency, speed and security.
- Engineered middleware to integrate Magento, CargoWise, and 3GTMS, streamlining logistics processes. Additionally, utilized the middleware as an API for mobile app development using Flutter, with event sourcing principles applied to synchronize and manage complex logistics data across platforms.
- Leveraged the CargoWise eAdaptor API and integrated IoT location tracking for real-time visibility, employing event sourcing to process and store state changes for precise tracking and historical query capabilities.
- Managed Linux server administration
- Expanded the system to include Sage Accounting integration.
- Guided offshore contractors through all project aspects, including security measures and compliance, focusing on the implementation and management of event sourcing architecture to maintain data consistency and reliability across distributed systems.

AndraGroup, Inc**November 2019 - November 2020*****Principal Software Engineer and eCommerce Integration Expert***

Led project management for one of the world's largest online apparel retailers, HerRoom.com and HisRoom.com, overseeing the transition to the Magento eCommerce Platform. Coordinated internal teams, local outsourcers, and offshore contractors for seamless execution.

- Orchestrated the migration to Magento, managing design, development, and implementation.
- Developed and deployed a PHP middleware system for smooth data flow between systems.
- Implemented PHP API integrations and a RabbitMQ messaging system for enhanced communication.
- Managed Linux server administration for stability, security, and PCI compliance.
- Developed and executed PHP API integrations for sales tax compliance with regulatory standards.

The Shade Store, Inc**June 2019 - December 2019*****Principal Software Engineer and Team Lead***

Improved company's eCommerce platform with expertly crafted custom PHP code for payment gateway integration.

- Engineered comprehensive platform overhaul, enhancing scalability.
- Led seamless implementation of major payment gateways (Braintree, Paypal, Authorize.net, Stripe.com).
- Spearheaded compliance and security initiatives to meet industry standards.
- Architected strategic enhancements for enhanced user experience.
- Optimized payment processes, boosting system efficiency.
- Fostered cross-functional collaboration to align technology with business objectives.
- Positioned company as eCommerce technology leader.

Corsicana Mattress Company, Inc**January 2018 – June 2019*****Principal Systems Architect and Lead Software Engineer***

Contributed to technological advancements at the 4th largest mattress manufacturer in the United States, showcasing expertise in PHP, Node.js, and React JS.

- Led the design, development, and execution of a groundbreaking web portal, introducing new functionalities for sales, customer service, accounting, business analytics (PowerBI), order tracking, and interfacing with shipment tracking IoT devices.
- Demonstrated strong project management skills by overseeing the entire development lifecycle, from planning and design to implementation and deployment, while effectively planning for and mitigating risks.
- Collaborated closely with business analysts to gather requirements from stakeholders, ensuring alignment with project goals and objectives and proactively addressing potential risks.
- Managed local developers and coordinated with a remote team in India for efficient collaboration.
- Executed detailed, complex technical solutions in PHP, Node.js, and ReactJS, leveraging Azure cloud hosting for scalability and efficiency, as well as interfacing with OKTA and TWILIO APIs.
- Specialized in microservices in PHP and Node.js, maintaining knowledge management, and overseeing PHP-based Git software repositories, security protocols, and API interfaces.
- Implemented Docker deployments for streamlined application deployment and customized SugarCRM and Salesforce interfaces using PHP, Node.js, and React JS.

The Conservative Institute, Inc
June 2017 – January 2018
Principal Software Engineer

Contributed significantly to the online presence of a major conservative news organization by spearheading transformative initiatives:

- Led the design, development, and deployment of website integration for a prominent conservative news organization, utilizing PHP and Node.js.
- Successfully interfaced with numerous third-party microservice APIs, including Twilio, Boomtrain, Mailchimp, OneAuth, Okta, AimTell, PushLeverage, Facebook, Twitter, CloudFlare, and more, enhancing the platform's functionality and user experience.
- Implemented a comprehensive A-B Testing module for the WordPress site, enabling the organization to effectively test and respond to results from A-B Marketing techniques, optimizing content and strategies.
- Developed customized plugins and add-ons for WordPress, tailoring solutions to the specific needs of the client. This included extensive MySQL database design and tuning for optimal performance.
- Took charge of maintaining Linux servers, ensuring security patches were applied as needed, and contributing to the overall security and stability of the organization's online infrastructure.

Hospice Source, LLC
March 2016 – May 2017 - Contract
Senior Software Engineer, Acting CTO

Contributed to the success of a major Hospice Durable Medical Equipment (DME) company, showcasing leadership in PHP and Node.js technologies.

- Served as the Chief Technology Officer, overseeing the design, development, and maintenance of existing systems while leading a team of software engineers.
- Spearheaded the creation of a new logistical management system in PHP and Node.js to ensure timely delivery of medical equipment to patients, managing drivers, and all deliveries across a substantial patient census of 30,000+.
- Developed and executed a comprehensive AWS migration plan, leveraging cloud infrastructure to enhance scalability, reliability, and overall system performance.
- Pioneered the creation of a sophisticated database system using MySQL, integrated with PHP and Node.js, to manage the company's acquisition of numerous other entities, streamlining operations and consolidating data for improved efficiency.
- Collaborated with various microservices in PHP and Node.js, including vehicle tracking, credit card processing, and interfacing with accounting systems, among others, to enhance the functionality and capabilities of the overall system.

Mosaic Learning, LLC
October 2015 – September 2016
Principal Software Engineer

Contributed to the growth and success of an online eLearning company specializing in LMS-type systems, including Moodle:

- Specialized in LMS-type systems, particularly Moodle, and developed numerous plugins and enhancements to optimize the functionality and user experience of the learning management platform. This included features such as interactive quizzes, enhanced course navigation, and personalized learning paths.
- Collaborated closely with cross-functional teams at Mosaic Learning to translate client requirements into innovative software solutions.
- Demonstrated expertise in PHP, JavaScript, and database management to deliver scalable and efficient solutions tailored to meet the unique needs of clients in the eLearning industry.

AWARDS

The Texas State Small Entrepreneur of the Year • 12/1995

John Sharp, State of Texas Comptroller

VOLUNTEERING & LEADERSHIP

Amateur Radio Emergency Service • 01/2014 - Present

Assistant Emergency Coordinator

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.

The Sisters of Martha and Mary - City of Joy Orphanage, Esquipulas, Guatemala • 01/2009 - 08/2011

Full Time Missionary living in Guatemala

My wife and I lived in Guatemala, and served as full-time missionaries, helping build an orphanage that currently houses 81 children. We continue to help financially and prayerfully, but do not travel to Guatemala regularly any longer.

"What's up with Six?" YouTube Channel

Content Creator

I co-create and host content on the 'What's Up With Six?' YouTube channel with my wife, where we explore topics like software development, amateur radio, electronics, digital nomading, and the intricacies of life at our home, Circle 6 Ranch, in rural America. Our channel serves as a platform to share innovative solutions and insights, blending knowledge, creativity, and personal experiences. Each episode aims to educate and inspire our viewers, fostering a community of tech enthusiasts and rural lifestyle aficionados.

PUBLIC SPEAKING

As a seasoned public speaker with prior engagements in 310 cities worldwide thus far, I have extensive experience discussing various technology topics. Additionally, I am deeply committed to addressing ageism, a cause that became close to my heart after my personal encounter with it in the tech industry. I offer a range of services tailored to diverse audiences. For companies, I provide insights into cultural issues that foster ageism and illustrate the benefits of multi-generational teams, supported by relevant statistics. For older workers re-entering the workforce, I deliver practical tools, tips, and resources to facilitate their transition. Each speech is crafted to meet the specific needs and goals of my audience, ensuring both relevance and impact. Following my viral LinkedIn post on my personal experience, I founded support groups and spearheaded initiatives that have sparked significant public dialogue and ongoing efforts to effectively combat age discrimination.