

Trịnh Phước Thái

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Professional Summary

Accomplished Senior Technical Leader and Enterprise Software Architect with over 20 years of experience delivering robust full-stack applications and scalable enterprise software solutions. Proven track record leading multi-disciplinary engineering teams, designing complex microservices architectures, and executing large-scale systems integrations. Expert in optimizing operations and driving engineering transformation by integrating cutting-edge technologies, including the deployment of modern AI tools to accelerate development workflows and enrich product features.

Core Qualifications

- **Leadership & Management:** 20+ years managing and guiding cross-functional engineering teams (up to 15+ members), implementing agile methodologies, and executing technical strategy.
- **Architecture & Design:** Deep expertise in full-stack engineering, microservices infrastructure, enterprise ERP design, high-performance database modeling, VoIP network integration, and secure application environments.
- **Education:**
 - Master of Business Administration (MBA) – American Heritage University (2009 – 2010)
 - Bachelor of Information Technology – Hung Vuong University, Ho Chi Minh City (1997 – 2001)

Technical Expertise

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| Languages | JavaScript, HTML, CSS, Python, Rust, Java, PHP, GoLang, C#, Perl, Bash Scripting |
| Frameworks & Libraries | ReactJS, Angular, Vue, ExpressJS, SailJS, Spring Core, Spring Security, Spring Data, J2EE, JPA/JDO, Yii, Laravel, Apache Shiro |
| Databases & Messaging | PostgreSQL, MySQL, MongoDB, Oracle, SQL Server, AWS RedShift, Redis, RabbitMQ, CosmosDB, DynamoDB |
| DevOps & Cloud | Docker, AWS, Firebase, Linux/Ubuntu Server, Solana Web3 integration |

Professional Experience

June 2015 – Present | Ho Chi Minh City, Vietnam

Technical Lead | *SiliconPrime Technologies*

- Direct and mentor a high-performing full-stack engineering team of over 10 developers across multiple simultaneous initiatives.
- Architect, design, and deploy highly scalable, web-based software ecosystems using modern Node.js, Angular, React, and native mobile technologies.
- Drive technical standards, code reviews, and architectural choices ensuring premium application speed, security, and robustness.
- Pioneered the strategic adoption of AI tools and methodologies within development cycles, successfully accelerating project delivery timelines and optimization.

July 2012 – November 2014 | Ho Chi Minh City, Vietnam

Lead Software Architect | *Bách Khoa Computer*

- Headed a dedicated core development team, orchestrating structural decisions and architectural patterns for complex internal business applications.
- Spearheaded research and development of emerging tech stacks, shifting internal applications successfully toward modern Java enterprise frameworks and Node.js ecosystems.

October 2010 – July 2012 | Ho Chi Minh City, Vietnam

Technical Manager | *KMCSoft*

- Managed and motivated an engineering team of 10+ members through full-lifecycle development of sophisticated software products.
- Designed and implemented enterprise-level ERP systems customized for SMEs using enterprise Java technologies including Spring, Spring Security, and JDO.

2004 – 2010 | Ho Chi Minh City, Vietnam

IT Manager | *Xuan Trang Company*

- Conceptualized, built, and maintained mission-critical internal systems including customized Stock Management tools, Knowledge Management Systems (KMS), and corporate web applications.
- Administered enterprise-wide network infrastructure, LAN/WAN communication channels, secure remote Internet access, and transitioned infrastructure environments smoothly into Open-Source Linux environments.

2002 – 2004 | Ho Chi Minh City, Vietnam

Software Developer | *GoodLand Informatics*

- Developed responsive web applications and data-driven corporate websites leveraging enterprise Java technology, JSP, and early web scripting standards.

Key Projects Portfolio

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| Project Name | BridgeTracker (bridgeathletic.com) — June 2015 – Present |
| Description | High-performance athletic training platform designed for coaches, trainers, physical therapists, and performance athletes. Recently integrated native generative AI features into the core product to allow end-users to create performance programs and instructional content effortlessly and instantly. |
| Role / Stack | Technical Leader (Team: 14 members) Node.js, ExpressJS, AngularJS, Angular 2+, GenAI/LLM APIs, MySQL, ElasticSearch, RabbitMQ, Redis |
| Key Achievements | Successfully researched and incorporated AI-assisted coding and automated workflows within the internal development pipeline, reducing engineering and development effort by 80% . |

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| Project Name | HXRO (hxro.trade) — April 2020 – 2025 |
| Description | A unique, innovative decentralized exchange facilitating the trading of crypto options and structured derivatives (Bitcoin, Ethereum, Solana contracts). Operate web-based system architecture over high-throughput microservices. |
| Role / Stack | Full Stack Developer Node.js, Python, C#, ReactJS, Rust, Solana, SQL Server, DynamoDB, CosmosDB, PostgreSQL |

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| Project Name | FixtHUB (fixthub.com) — Oct 2016 – Oct 2018 |
| Description | A neutral, multi-asset class web platform aimed at Fixed Income Trade Generation (FITG) for dealers and buy-side firms. Handled over 700GB of financial data with real-time push streams and dynamic ad-hoc querying capabilities. |
| Role / Stack | Lead System Architect (Team: 9 members) J2EE, JMS, ActiveMQ, .NET, Apache Shiro Security, SQL Server |

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| Project Name | Online Shop Responsive Architecture — Aug 2016 – Oct 2018 |
| Description | High-concurrency e-commerce environment (procare24h.vn) with a dynamic models administration interface to add custom fields on the fly, robust full-text search, and automated push notifications. |
| Role / Stack | Project Leader (Team: 2 members) Node.js, Express, AngularJS, NodeMailer, OneSignal, MongoDB, ElasticSearch, Redis |

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| Project Name | NSAT - Next Generation Sequencing Analysis Toolkit — Aug 2013 – Oct 2013 |
| Description | Bio-sequencing analysis platform capable of securely handling massive files (2GB-10GB) using specialized background Perl transfers, integrating pipeline processing tools running on SGE clusters, and rendering complex visual charts. |
| Role / Stack | Project Leader (Team: 5 members) PHP Yii Framework, Perl, SGE Cluster, Anovar, Fastq Pipeline, MySQL |

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| Project Name | ERP System for SMEs — 2005 – 2012 (Continuous) |
| Description | Comprehensive enterprise application incorporating rich, interconnected modules for CRM (Leads, Accounts, Orders), SCM (Stock tracking, POs), HR (Payroll, Leaves), and Finance (General Ledger, Taxes, Multi-currency assets). |
| Role / Stack | Project Leader (Team: 6 members) Spring Framework, JDO (Data Nucleus), ZK Framework, PostgreSQL |