

Khang Dinh

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 <https://khangdinh.com/about-me>

Summary

I build software using web-based & web-scaled technologies. It's my job & personal satisfaction to develop & deploy applications that (1) operate under high traffic, (2) are aesthetically functional, (3) solve practical end-user problems, (4) have a good Developer Experience, and (5) are automated as much as possible.

My areas of expertise:

- Web-based software development across disciplines: Client-side (since 2008), Server-side (since 2015), UI / UX (since 2008), vertical & horizontal Scaling (since 2011), Monolithic / Microservice, SPA / SaaS, web security, restful web services, Identity Federation
- Web-scaled deployment across disciplines: (Semi-)Manual / Automatic, Cloud (AWS since 2014, GCP since 2018) with or without Kubernetes / in Data Centers (since 2011), Ad-hoc / At-scale (multi-tenant, load-balanced applications), principles on ease of maintenance
- Building / assembling tools, utilities, in-house infrastructure for corporate engineering teams, focusing on improving developer productivity & keeping TCO low
- Media Streaming (transmission and consumption of video & audio signals through the www) along with end-to-end Advertisement inventory management & delivery (e.g. IAB standards) since 2011

My Stack: JavaScript (Vanilla / TypeScript / Node.js / React-stack, socket.io), HTML, (S)CSS, Bash, PHP, Java, NGINX, Redis, Docker, TDD-backed CD Pipelines, Linux machines in Data Center racks or AWS / GCP / VPS, plus what's needed for my next projects

While being a client-side engineer at heart, I am knowledgeable about server-side practices such as: Server-rendered views, Reversed proxies, HTTP/2, Cache management, Failover management, database-related Design Patterns such as: master vs slave, batch operations, early acknowledgement, CQRS, ETL, message pub/sub services, Memcache, Security-related topics such as CSRF, CORS, CSP, iptables

Management-wise, I'm familiar with Agile methodologies for software teams and Corporate Governance practices for startups / medium-sized corporates. I've managed software engineer teams up to the size of 5, and worked as Technology Advisor for an organization the size of 30

In my spare time, I enjoy discussing business ideas, building POCs and MVPs, and writing MIT-licensed utilities such as this: <https://khangdinh.com/vsc-simplelegitignore>

My other presences:

- the code: <https://github.com/thesephi>
- the web: <https://khangdinh.com/about-me>
- the blog: <https://khangdinh.wordpress.com/>
- the overflown stack: <https://stackoverflow.com/cv/khangdinh>

Experience



Software Engineer

Valsight

Mar 2018 - Present (2 years 8 months +)

- build low & high level React components currently used in more than 90% of the UI of a large enterprise-grade application
- ensure desirable performance of e.g. 100s/1000s React components (per view) consuming remotely-fetched data
- train junior colleagues via quick pair-programming sessions or providing code examples
- work with TypeScript, ReactJs-stack, ExtJs, d3js, enzyme, jest, webpack, Jira and Confluence platforms 100% of the time



Technology Advisor

Digital Power Media

Jun 2017 - Present (3 years 5 months +)

- designed initial system architecture for the company's main product
- technical corporate governance: ensure there exists no single point of failure for the organization
- maintained developer onboarding experience and tech culture by directly consulting individual engineers
- set up foundational CI/CD flows for codebases hosted on GitLab (without using any 3rd-party service)



Technology Lead & Country Representative

<https://angel.co/company/goraydar>

Mar 2016 - Aug 2017 (1 year 6 months)

- helped secure funding for the company (additional SGD \$100.000 during my tenure here)
- hired & led an engineering team up to the size of 5 as we developed and maintained a web-based stock photo search-engine running on a microservice architecture & utilizing Elasticsearch, Node.js, React-stack, 3rd-party stock photo APIs, and Stripe payment API
- built internal tools to help with staging / production deployments, long-running / scheduled background jobs
- managed CI/CD & site-reliability: an uptime of at least 95% was maintained during my tenure here
- addressed customer payment-related issues by analyzing internal and 3rd-party system logs; issues (if at all) were resolved in under 2 business days
- communicated with engineering peers from inside & outside Asia (e.g. stock photo suppliers / API partners from Europe and the USA) to maintain API usage agreements; issues (if at all) were resolved in under 2 business days
- helped with PR, growth-hacking, and customer happiness



Co Founder, Technology Director

<https://angel.co/company/pureed>

Feb 2014 - Feb 2016 (2 years 1 month)

- helped secure initial seed fund (USD \$25.000) for the company's E-Learning product built with RoR, Redis, Socket.io, Angular.js, ActionScript, and run on DigitalOcean cloud (<https://angel.co/pureed>)
- when we pivoted from a product company to a service agency, I learned to switch my gears and be there for the others while they switched theirs
- sketched system architectures and API designs for at least 3 major client projects during my tenure after the pivot
- developed websites and web apps utilizing: WordPress, PHP, JavaScript, ActionScript, HTML, CSS

- learned to contribute to Business Development, Public Relations, HR policy planning, TCO planning, project management, and growth-hacking

Mirum **Digital Technologist**

Mirum Vietnam

May 2012 - Aug 2013 (1 year 4 months)

- created technical guidelines, MVP prototypes, and documentations (shared knowledge base e.g. PHP websockets, web-based media player / developer onboarding materials)
- researched on digital trends and technologies that potentially sold well in the digital creative and marketing industry

Mirum **Interactive Developer**

Mirum Vietnam

Aug 2011 - May 2012 (10 months)

- executed digital marketing solutions for at least 7 FMCG brands during my tenure here, ranging from interactive branding websites to browser-based platform games to wifi-controlled vending machines

Interactive Developer

PVAC

Oct 2008 - Aug 2011 (2 years 11 months)

- was among the founding engineers to a Video on Demand platform (known as <http://vivo.vn> today)
- pioneered in implementing the VAST video advertisement standard while working for one of the earliest VOD service providers in my home country (Vietnam)
- successfully implemented OpenX AdServer (installation, using, and scaling) to support ad revenues directly from the advertisers (besides ad networks)
- designed & built rich interactive-media websites using ActionScript / CSS + JavaScript, Photoshop, Illustrator
- worked as a video encoding and streaming engineer (taught myself `ffmpeg` in the process)

Honors & Awards



Webby Award - The Webby Awards

Apr 2013

The reward was given to Sofresh Digital Creative Agency, during my tenure there, when I took part in a lot of digital creative projects leading to the award.

Prize: Honoree - 17th Annual Webby Awards - Consumer Packaged Goods



Full Bachelor Scholarship - RMIT University

2006

I was honored to have received and maintained the full scholarship to my bachelor education by the Royal Melbourne Institute of Technology (Victory, Australia) in order to pursue my enthusiasm in digital media.