

VU PHAM

FULL-STACK DEVELOPER & CTO

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SUMMARY

Results-driven Full-Stack Developer and CTO with over 8 years of leadership experience, delivering innovative, high-impact solutions across web, mobile, and cloud-based platforms. Spearheaded projects generating 5x to 30x ROI, specializing in AI-driven applications, gamification, and high-traffic systems. Proficient in modern tech stacks, including AWS, Cloudflare, React, and Node.js, with a proven ability to architect scalable, user-centric solutions for industries like banking, real estate, and social networking.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Java, Objective-C
- **Frameworks & Libraries:** Node.js, React Native, Next.js, React.js, Flutter, Capacitor
- **Databases:** SQL (Oracle Database, Cloudflare D1), NoSQL (MongoDB, AWS DocumentDB), Redis
- **Cloud & DevOps:** Cloud Flare, Amazon Web Services (AWS), Google Cloud, Nginx
- **Other Technologies:** Apache Kafka, P2P, Ffmpeg, SSR
- **Tools:** Git, AI

PROFESSIONAL EXPERIENCE

FeelAI - AI Story-Driven Social Network (05/2024 – Present)

Fullstack developer & CTO

1. Led development of both front-end and back-end hosted on Cloudflare, featuring LLM and image generation for dynamic content creation.
2. Built a multilingual, mobile-first platform with responsive UI, utilizing Cloudflare D1 (database), R2 (file storage), Pages (frontend), and Workers/Durable Objects/Workflow (backend).
3. Demonstrated expertise in cloud-native architecture and AI-driven solutions.
4. Technologies: Cloudflare, React, SQL, Vectorize, AI, Typescript, ReactJS, Phaser

Lucky Draw - Techcombank \$5M Campaign (10/2022 – 02/2023)

Fullstack developer & CTO (Tekmate)

- Spearheaded the end-to-end backend development for a high-traffic, \$5M marketing campaign, serving 2M users with extreme concurrency while ensuring fair and efficient reward distribution until the campaign's conclusion.
- Designed and implemented a robust, scalable system architecture leveraging AWS DocumentDB for reliable data management, EC2 Auto Scaling Groups for dynamic resource allocation, and Redis for high-speed caching to handle peak traffic seamlessly.
- Integrated the system with Techcombank's existing infrastructure using AWS services, ensuring compatibility, security, and performance optimization.
- Collaborated with cross-functional teams, including security and business analyst (BA) teams, to meet stringent requirements, incorporating additional features like enhanced encryption protocols and compliance with banking regulations.
- Achieved flawless system reliability and performance, handling millions of transactions without downtime or reward depletion, contributing to the campaign's success.
- Technologies: AWS, AWS DocumentDB, EC2 Auto Scaling Groups, Redis, Node.js, ReactJS, webgl

GameFox Gamification Platform (2022 - 2023)

Fullstack developer & CTO (Tekmate)

- Designed and developed a robust gamification platform adopted by multiple Vietnamese banks, transforming user interactions into engaging experiences through dynamic quests, rewards, and competitive features, significantly boosting customer engagement and retention.
- Architected a scalable Node.js-based backend integrated with Apache Kafka for high-throughput, event-driven processing, enabling real-time consumption of user events to distribute tickets and rewards based on predefined rulesets.
- Implemented a comprehensive reward management system, including reward pool control, leaderboard functionalities, and reward distribution strategies, ensuring fair and efficient allocation while maintaining campaign integrity under high user volumes.
- Leveraged AWS services (e.g., EC2, S3, RDS) to build a cloud-native infrastructure, optimizing for scalability, reliability, and performance to handle large-scale banking campaigns.
- Developed an abstraction layer to ensure platform compatibility with diverse bank infrastructures, enabling seamless integration across varying systems and reducing deployment friction for clients.
- Built intuitive frontend interfaces and APIs to allow bank administrators to create, manage, and monitor gamified marketing campaigns, providing tools for quest configuration, reward tracking, and real-time analytics.
- Ensured high availability and fault tolerance by designing event-driven workflows with Kafka, processing millions of user interactions without downtime or reward misallocation.
- Delivered a flexible, reusable platform that empowered banks to launch tailored marketing campaigns, driving measurable increases in user participation and brand loyalty.
- Technologies: Node.js, ReactJS, AWS (EC2, S3), MongoDB

GameFoxTV - Mini Games Platform for TV (2021 - 2022)

Fullstack developer & CTO (Tekmate)

- Single-handedly designed and developed the core of GameFoxTV, an innovative multiplayer gaming platform that enables users to play interactive mini-games on their TVs, controlled via mobile devices using P2P connections, eliminating the need for a traditional backend.
- Architected a decentralized system where the TV acts as the server and mobile devices as clients, leveraging P2P technology to ensure low-latency, real-time multiplayer interactions for a seamless gaming experience.
- Developed the platform's core infrastructure using React.js for the TV interface and Capacitor to bridge mobile apps, enabling cross-platform compatibility and smooth communication between TVs and iOS/Android devices.
- Created two flagship games for the platform:
- Texas Hold'em Poker: Built a fully functional, multiplayer poker game with real-time card dealing, betting, and player interactions, optimized for TV displays and mobile controls.
- Tam Cúc: Developed a digital version of Vietnam's traditional card game, preserving cultural authenticity while implementing intuitive controls and engaging visuals for modern audiences.
- Ensured smooth multiplayer gameplay for games like Texas Hold'em, Tam Cúc, Drawful, and Seahorse Chess, supporting multiple players in real-time with robust P2P synchronization for game states, scores, and actions.
- Overcame challenges of P2P networking by implementing reliable connection handling, fallback mechanisms, and optimized data transfer protocols to maintain performance across diverse network conditions.
- Designed user-friendly interfaces for both TV and mobile, enabling players to join games effortlessly via QR codes, enhancing accessibility and engagement.
- Delivered a lightweight, backend-free platform that reduced operational costs while providing a scalable, interactive gaming experience for living room entertainment.
- Technologies: P2P, React.js, Capacitor, JavaScript, WebRTC, webgl

Tekog - Secure Chat Application for Chinese Users (2019 - 2021)

Fullstack developer & CTO (Tekmate)

- Led the end-to-end development of Tekog, a secure chat application tailored for Chinese users, overcoming the challenges of China's highly restricted network environment to deliver a robust, privacy-focused communication platform.
- Designed and implemented both frontend and backend components, ensuring seamless performance and a responsive user experience across mobile devices.
- Developed a React Native mobile app with a custom native encryption module, bridged to the JavaScript layer, enabling end-to-end encryption for secure text, voice, and media communication.
- Integrated VPN technology to bypass network restrictions, combining it with end-to-end encryption to create a double-layered security model that ensured user privacy in a regulated environment.
- Implemented VoIP functionality for high-quality, voice calls and P2P connections for low-latency, direct user-to-user communication, optimizing performance under restrictive network conditions.
- Architected the backend using Node.js and AWS for scalable infrastructure and Nginx for efficient load balancing and request handling.
- Overcame China's Great Firewall challenges by optimizing network protocols and ensuring compatibility with local cloud platforms, delivering uninterrupted service to users.
- Ensured cross-platform compatibility and performance by writing native modules in Objective-C (iOS) and Java (Android), bridging them to React Native for a unified codebase.
- Delivered a highly secure, user-friendly application that empowered Chinese users with private, unrestricted communication, achieving high reliability in a challenging network landscape.
- Technologies: React Native, Objective-C, Java, Node.js, AWS, Nginx, VPN, VoIP, P2P

CoviTrack - BLE Close Contact Tracing App (2018- 2019)

Fullstack developer & CTO (Tekmate)

- Developed CoviTrack, a pioneering mobile application designed to manage COVID-19 exposure risks by leveraging Bluetooth Low Energy (BLE) technology for real-time proximity tracking, enabling users to monitor and mitigate potential exposure risks.
- Single-handedly designed and implemented a custom native discovery module for iOS (Objective-C) and Android (Java), integrated with React Native, to enable continuous BLE scanning and detection of nearby users, ensuring efficient and reliable contact tracing even in background mode.
- Innovated a robust BLE-based solution that inspired BKAV to develop their BlueZone app, demonstrating the impact and influence of the discovery module's concept on Vietnam's national contact-tracing efforts during the pandemic.
- Architected the backend using Node.js and MongoDB to store and process anonymized proximity data, ensuring scalability, data privacy, and compliance with health regulations.
- Overcame challenges of BLE's power consumption and cross-platform compatibility by optimizing the native module for minimal battery drain and seamless operation on diverse devices.
- Built a user-friendly React Native frontend, providing intuitive interfaces for users to view exposure alerts, manage tracing settings, and receive real-time notifications of potential contacts.
- Ensured data security and user privacy by implementing anonymized data handling and secure storage protocols, adhering to strict health and privacy standards.
- Delivered a scalable, impactful solution that empowered users to make informed decisions about their health, contributing to public safety during the COVID-19 pandemic.
- Technologies: Bluetooth Low Energy (BLE), MongoDB, React Native, Java, Objective-C, Node.js

OTHER PROJECTS

Zehitomo (Font-end developer)

- Contributed to a Japanese platform connecting workers and employers using SSR.
- Technologies: AngularJS, Next.js, React.js

Tingme - BLE-Powered Dating App (Full-Stack Developer)

- Created a proximity-based dating app using BLE technology.
- Technologies: React Native, MongoDB, Java, Objective-C, Node.js

ShoppingCall - Livestreaming in Shopping Mall (Full-Stack Developer)

- Built an app for real-time livestreaming of shopping experiences in malls.
- Technologies: React Native, MongoDB

Shadow Video - On-Demand Video Platform for Chinese Users (Full-Stack Developer)

- Created a video streaming platform tailored for Chinese users.
- Technologies: Next.js, Ffmpeg, AWS, MongoDB, Node.js

Shadow Tunnel - VPN Application for Chinese Users (Full-Stack Developer)

- Developed a secure VPN integrating Shadowsocks with AWS and Chinese cloud platforms.
- Technologies: AWS, Cloud Computing, React Native, Java, Objective-C, Nginx

ShoppingCall - Livestreaming in Shopping Mall (Full-Stack Developer)

- Built an app for real-time livestreaming of shopping experiences in malls.
- Technologies: React Native, MongoDB

Indoor Positioning System for Shopping Malls (Full-Stack Developer)

- Led development of a real-time navigation system for shopping malls.
- Technologies: React Native, MongoDB, Mongoose Web Server, Java, Objective-C

ColInvest - Investor-Project Connection Platform (Full-Stack Developer)

- Created a platform to connect investors with projects, accelerating collaboration.
- Technologies: Next.js, MongoDB, Node.js

Centralized Information Portal (Back-End Developer)

- Built a comprehensive portal for Vietnam's High-tech Engineering Center, streamlining operations with a unified interface.
- Technologies: Liferay, Java, Node.js, AngularJS, Oracle Database

MaxAsset (Full-Stack Developer)

- Developed a web app for real estate portfolio management, streamlining property tracking and investments.
- Technologies: Next.js, MongoDB

OPES (Full-Stack Developer)

- Developed backend modules for contract management and electronic contract generation.
- Built an embedded web app and mobile app to enhance service promotion and accessibility.
- Technologies: Flutter, Oracle Database, React.js, Node.js

EDUCATION

Bachelor of Information Technology

Hanoi University of Business and Technology, Hanoi, Vietnam | 2012 – 2016

ADDITIONAL INFORMATION

- Achievements: Delivered 20+ mobile apps and 50+ websites, consistently achieving 5x to 30x ROI as CTO.
- Interests: AI-driven technologies, cloud-native development, open-source contributions.

NOTE

- Gamefox is a project under Tekmate Co. LTD, not a separate company. All Gamefox-related projects were developed as part of my work at Tekmate.
- At Tekmate, I worked closely with development teams ranging from 3 to 10 members. Beyond coding, I actively participated in:
- Requirement Gathering: Collaborated with customers to collect and refine project requirements, ensuring alignment with business goals.
- Code Review: Inspected codebases to maintain quality, consistency, and adherence to best practices.
- Solution Design: Provided technical solutions and led system design efforts, architecting scalable and efficient systems tailored to project needs.
- There are more projects under Tekmate and Gamefox that can be detailed if needed to showcase further expertise or align with specific job requirements.