




# An Tran

Experienced software engineer. JavaScript & TypeScript lover. Tech enthusiasts.

 LinkedIn

Software Engineer with 12+ years building production systems, specializing in JavaScript runtime environments, performance optimization, and security-focused development. Proven track record of rapidly acquiring domain expertise in new technologies - from crypto compliance systems to complex build tooling. Strong reverse-engineering and debugging skills with experience in containerization, CI/CD pipelines, and system-level optimization. Proficient in English.

## Personal Information

-  Ho Chi Minh city, Vietnam  
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## Experiences



### Cerby

Senior Software Engineer · Dec 2024 - Present

- Architected and implemented complete identity automation platform from scratch using Node.js backend with Hono.js framework and React frontend with Tanstack Router, demonstrating end-to-end ownership of greenfield fintech-grade systems.
- Built event-sourced architecture with PostgreSQL using CQRS pattern and Drizzle ORM, enabling audit-compliant data pipelines for financial operations and regulatory requirements.
- Engineered automated OTP extraction system using Cloudflare Email Worker and AI Worker, processing authentication workflows with sub-second latency for enterprise identity management.
- Developed production-scale browser extension with WXT framework integrated with server-side Playwright automation, orchestrating complex login workflows across 100+ SaaS applications with RBAC and MFA enforcement.
- Implemented Password Rotation Policy system using Kafka event streaming and Temporal workflow engine, ensuring zero-downtime credential management for enterprise security compliance.
- Established type-safe API contracts with Zod schema validation and comprehensive CI/CD pipelines using GitHub Actions, maintaining 99.9% uptime for mission-critical authentication services.



### Coinhako

Senior Software Engineer · Oct 2023 - Feb 2025

- Rapidly mastered crypto compliance domain knowledge to develop Travel Rule-compliant systems, demonstrating ability to quickly acquire expertise in complex regulatory frameworks.
- Optimized JavaScript runtime performance by removing 50% code duplication through systematic analysis and refactoring - skills directly applicable to browser engine optimization.
- Architected and implemented complete design system from scratch, showcasing ability to work with complex component hierarchies similar to browser rendering systems.
- Integrated complex third-party protocols (WalletConnect v3) requiring deep understanding of network communication and security - transferable to browser protocol implementation.
- Led anti-bot detection strategy upgrade, analyzing attack patterns and implementing enterprise-grade defenses against 100k+ automated requests per hour - directly relevant to stealth and anti-detection work.



### Binance

Senior Software Engineer · Jun 2022 - Sep 2023

- Built high-performance server-side rendering applications with deep focus on JavaScript optimization and runtime behavior analysis.
- Developed dynamic configuration systems and reusable micro-frontend modules, demonstrating ability to work with complex build systems and modular architectures similar to Chromium components.
- Created mobile integration solutions replacing webview implementations, requiring deep understanding of browser behavior and mobile platform constraints.
- Developed custom ESBuild webpack plugins for syntax compatibility checking - demonstrating experience with build tooling, compilation pipelines, and browser compatibility analysis.
- Led cross-team debugging initiatives, developing strong problem-solving and reverse-engineering skills essential for browser internals work.



### Flow Networks

Senior Software Engineer · Jun 2021 - Jun 2022

- Developed cross-platform SDK using vanilla JavaScript and Webpack, demonstrating ability to work with low-level JavaScript APIs and build systems essential for browser modification work.
- Built reusable web components with Stencil.js compiler technology, showing experience with JavaScript compilation and cross-platform compatibility - foundational skills for Chromium component development.
- Architected secure data storage system with advanced encryption schemes on serverless infrastructure, demonstrating security-first mindset and system-level thinking applicable to browser security boundaries.
- Implemented edge computing solutions with Cloudflare Workers for intelligent request routing and caching, showcasing understanding of network protocols and performance optimization relevant to browser networking stack.

## Education



### Pierre and Marie Curie University (Paris VI)

2010 - 2013

Bachelor's Degree, Computer Software Engineering

## Languages



### English

Full professional proficiency



### Vietnamese

Native proficiency



### French

Professional working proficiency



### Wizeline Vietnam

Senior Software Engineer · Aug 2019 - Jun 2021

- Real Estate Platform

- Developed Landing page and Property Management System for a real estate company in UK using Next.js, Zustand, react-query, Material-UI, deployed to Azure
- Improved the structure and readability of the current code from customer-side by refactoring, simplifying the logic handling and removing code duplication

- e-Tipping - A Eko Chat Mini App

- Developed e-Tipping Management System to simplify the way giving tips to driver or staff of hotels and parking places in USA using Next.js, Ant Design UI components, integrated with Stripe - Developed Performance Review system for a media and tech company in Thailand using Next.js, Ant Design, MobX, Socket.IO

- Rokt Ecommerce: Upsells & Ads - A Shopify Mini App

- Built production-scale embedded applications with containerized deployment, demonstrating experience with complex runtime environments and performance optimization similar to browser instance management.
- Implemented design systems requiring deep browser compatibility analysis across different user agents - directly transferable to fingerprint mitigation and stealth techniques.
- Led architecture discussions with focus on security boundaries and scalability, showcasing ability to reason about attack surfaces and system design principles essential for browser security work.
- Established comprehensive CI/CD pipelines for complex builds and deployments, demonstrating skills applicable to Chromium build systems and cross-compilation workflows.
- Conducted security-focused code reviews and browser compatibility analysis, developing expertise in identifying vulnerabilities and optimization opportunities relevant to browser internals work.



## ELCA Vietnam

Senior Software Engineer · Oct 2013 - Aug 2019

- Legislative Web Application

- Developed legislative content management web application using Angular 4/Kendo UI and Spring Boot/QueryDSL/Hibernate/Alfresco
- Developed legislative web editor using Angular 5/CKEditor/Kendo UI and Spring Boot/QueryDSL/Hibernate/Alfresco
- Developed congress management and event web application using Angular 5/Kendo UI and Spring Boot/QueryDSL/Hibernate/Alfresco
- Experienced Akoma Ntoso (International technical standard for representing executive, legislative and judiciary documents) and Alfresco Document Management System (Alfresco One) - Contributed software design and architecture discussions
- Collaborated with peers on designs, code reviews, testing and UX/interactive designs - Training and mentoring newcomers.

- Financial Web Application

- Developed SPA project using Durandal/Knockout.js and Spring/Hibernate servicing over 200 users
- Implemented robust solution in front-end development and reduced 50% code duplication
- Improved 30% performance of customer's Spring batch jobs
- Solved technical issues for customer in production deployment

## Skills

JavaScript

TypeScript

Node.js

MySQL / PostgreSQL

OpenAPI

Drizzle ORM

Hono.js

React.js

Tanstack Router

Tanstack Query (React Query)

Zustand

Zod

Event Sourcing & CQRS

Kafka

Temporal Workflows

Playwright

GitHub Actions

Cloudflare Workers

Java

Next.js

Kubernetes

Spring Boot

Microservices Architecture

Domain-Driven Design (DDD)