

CONTACT

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An Khánh Ward, Ho Chi Minh City

SKILLS

Backend:
C#, ASP.NET Core Web API, ASP.NET MVC, Entity Framework Core / EF6

Web frontend:
Next.js, React, TypeScript, Tailwind CSS, HTML/CSS/JavaScript

Apple platforms:
Swift 6, SwiftUI, AppKit, CryptoKit, GRDB

Cross-platform .NET:
Xamarin, .NET MAUI, WPF

Databases:
SQL Server, PostgreSQL, SQLite

Security:
Sessions & JWT, TOTP, passkeys (WebAuthn), AES-GCM, HMAC signing, CSP

Infrastructure:
IIS, Docker, TrueNAS & ZFS, Caddy, Cloudflare, Linux

Testing & release:
xUnit, Swift Testing, XCUITest, GitHub Actions, Sparkle

EDUCATION

HUTECH University
Engineer's degree in Information Technology, 2020 – 2024

Bạch Thái Đăng Khoa

Full-stack Developer

Full-stack developer with 3 years of experience across the whole product: requirements, database and API design with ASP.NET Core, web frontends in Next.js, iPhone and Mac apps in Swift, and the servers and deploys underneath. Focused on security (sessions, MFA, passkeys, data encryption, audit logs) and automated testing — more than 2,100 tests across the projects.

EXPERIENCE

Software Developer — ACIS Technology Corporation

10/2024 – present

- Build, maintain and optimise mobile, desktop and web applications for customers and internal operations.
- Work across frontend, backend and APIs, from requirements analysis and data design to release.
- Develop mobile apps with Xamarin/.NET MAUI and Swift (iOS native), focusing on UI/UX, authentication and API integration.
- Design and tune SQL Server/PostgreSQL databases; set up and run the company's own email server.

Intern Web Developer — XTECH789 JSC

04/2024 – 08/2024

- Built responsive frontends for e-commerce and corporate websites in HTML, CSS and JavaScript.
- Worked with backend developers and designers to integrate dynamic data and adjust UI/UX to each project.

IT Support (part-time) — Lanoca Co., Ltd.

02/2021 – present

- On-demand IT support, remote or on-site: computers, the office network, cameras and the company email system.

PROJECTS

Cà Phê Tý Mập — POS & shop management system

07/2026 – present · Client: Cà Phê Tý Mập (Rạch Giá) · caphetymap.store

Stack: .NET 8, EF Core, SQL Server, Next.js 16, Swift 6, SwiftUI, ESC/POS, VietQR

- Runs the shop in place of a commercial POS: an API (~215 endpoints), an admin panel, a website and two iPhone apps for staff and the owner.
- Table and takeaway orders, ESC/POS thermal printing over LAN, VietQR payment, till sessions, GPS attendance, payroll, stock and loyalty points.
- Two auth systems (session + Argon2id + TOTP for admins, rotating JWT refresh tokens for the apps), AES-256 encryption, tills kept in sync over SSE.
- 247 API tests, 134 Swift package tests and 43 UI tests.

GonShip — Delivery quote & order bot on Zalo

10/2026 – present · Client: GonShip (Rạch Giá)

Stack: TypeScript, Cloudflare Workers, Zalo

- A Zalo bot that quotes deliveries within seconds from GonShip's price sheet and gathers the orders shops send in group chats for staff to check and pass to drivers.

SOFT SKILLS

Communication and teamwork

Analytical thinking and time management

Basic graphic design tools

dangkhoabach.vn — Personal platform

07/2026 – present · Personal project · dangkhoabach.vn

Stack: .NET 8, EF Core, SQL Server, Next.js 16, React 19, TypeScript, WebAuthn, IIS

- One ASP.NET Core API and eight Next.js apps: portfolio, ToolsHub (88 tools), app downloads, a random game, Text to Speech, a film library, accounts and admin.
- Single sign-on for every site with per-app access; TOTP MFA, passkeys, re-verification for sensitive actions, audit log, cookie-less analytics.
- 335 API tests; scripted deploys to Windows IIS with post-deploy checks.

Lanoca Design — Platform rebuild

04/2024 – 05/2024, 06/2026 – 09/2026 · Client: Lanoca Co., Ltd. · lanoca.vn

Stack: ASP.NET MVC 5 → .NET 8, EF Core, SQL Server, Next.js 16, React 19, Tailwind CSS

- Phase 1: a company website in ASP.NET MVC 5. Phase 2: rebuilt as an API and three Next.js apps (website, admin, catalogue).
- A page-flip catalogue viewer replacing a paid embed: PDFs rendered to images, full-text search.
- Invite-only admin, permission matrix, TOTP, audit log; 301 redirects kept the search rankings; 136 API tests.

Seven open-source macOS apps

07/2026 – present · Personal project · apps.dangkhoabach.vn · github.com/dangkhoabach

Stack: Swift 6, SwiftUI, AppKit, GRDB, CryptoKit, IOKit, ScreenCaptureKit, Metal, Sparkle

- SignalBar 2.4.0: uptime, SSL, domains, SSH servers and LAN devices; rewritten from Tauri to native Swift; 381 tests.
- KeyCellar 1.0.2: an offline secrets vault, master key in the Secure Enclave, HPKE sealing, no network access; 134 tests.
- SourceDeck 1.0.5 (a native Git client replacing Sourcetree; 220 tests), EasyDock 1.5.0 (minimize from the Dock, ⌘Tab by window, window snapping, an encrypted clipboard, ZIP and 7z archiving, RAR extraction; 343 tests), ScreenHelm 1.0.0 (DDC brightness, XDR, virtual screens; 188 tests), MediaCatch 2.1.2 (video/audio downloads via yt-dlp) and FoldAway 1.1.0 (a screen fold effect driven by the lid angle sensor).
- Signed automatic updates through Sparkle and a release infrastructure of my own.

Home lab on TrueNAS

09/2026 – present · Personal project

Stack: TrueNAS, ZFS, Docker, Python, Caddy, Home Assistant, HomeKit, HMAC

- An unprivileged, outbound-only agent signs every request with HMAC-SHA256; a root helper runs only a fixed list of commands; 15 commands from the admin panel behind MFA.
- A custom Home Assistant integration brings devices into Apple Home through the HomeKit Bridge; Vietnamese and English text to speech (VieNeu-TTS, Kokoro) and a film library over personal links; 127 offline tests.

Company websites: HK Vina Logistics, RIL Group (Australia)

10/2024 – 12/2024 · hkvinalogistics.com · rilgroup.com.au

Stack: ASP.NET MVC 5, C#, Entity Framework 6, SQL Server, Bootstrap, Tailwind CSS

- Bilingual websites with a content admin panel, project galleries, SEO and responsive layouts.