Bang Nguyen Huu

Gifu, Japan

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SKILLS

Languages: C, C++, Rust, Typescript, Java, Kotlin, SQL

Frameworks: Qt, ReactiveX, React, Svelte, Tailwind, NestJS, Flutter, WebGPU, OpenGL

Tools & OS: NodeJS, Docker, nginx, Redis, Linux (CentOS, Debian, Arch), Android, iOS, AWS, GCP

EXPERIENCE

Software Engineer NTQ Japan (Gifu, JP)

Aug 2022 - Present

• Built complex and performant embedded applications

Engineering Manager GoodCreate (Kagawa, JP)

Jul 2020 - Aug 2022

- Communicated with end clients to to build responsive feature-rich EC websites
- Built cross platform mobile applications and web backend written using Flutter, NodeJS, nginx

C++ Engineer FPT Software (Hanoi, VN)

May 2019 - Jul 2019

• Developed performant and feature-rich embedded applications

Game Programmer Gameloft (Hanoi, VN)

Mar 2014 - 2016, Apr - Nov 2018

- Developed, and optimized games for low-end mobile devices using C++, OpenGL, Unity3D
- Contributed in: Order and Chaos 2, Brothers in Arms 3, Ice Age Adventure, Disney Magic Kingdom, Shark Dash and other games

Notable Projects

Hi-ABT · Linux, Android, Micro Itron, Java, C, C++, TCP, Serial Communication Aug 2022 - Present

- Built software system to manage bus fare
- Implemented remote software update mechanics
- Handled complex communications between devices running 4 different OS, using TCP, Serial, HTTPS
- Implemented OS network setup procedure, managing static IP, route table, internet gateway, DNS
- Customized Android OS boot procedure, applied various fixes and maintained system stabability

Toxy · Flutter, NextJS, NestJS, Google Cloud, Fastlane, Github Actions

Aug 2021 - Jul 2022

- Collect requirements, design and built a location-based coupon offering app with Flutter, NextJS, NestJS
- Optimized server cost with Cloud Run. Reduced about 40% running cost compared to on-premise method
- Utilized API caching/UI hydration mechanic, resulting in highly snappy UX after first load
- Built a fully automated CI pipeline with Fastlane and Github Actions/Gitlab CI

AtCreator · Laravel, Fastlane, React Native, XCode CLI

Jul 2020 - Jul 2022

- Developed an app making system using ReactNative, allowing users to build and publish custom Android/iOS application with no technical prerequisite. Similar to Wix, but for mobile application
- Developed an automated app building system, using Fastlane, NodeJS, XCode CLI

HKMC · Qt, Linux, Coverity, IVI, Embedded

Feb 2017 - Nov 2017

- Built media playing application for automotive in-vehicle infortainment (IVI) system using Qt
- Implemented lazy loading mechanic, optimized to handling thousands of song with small memory footprint
- Fixed memory leaks, reduced object copy, optimized system performance. Utilized Coverity for static analysis

NSP64Bit · C++, Migration, Static Analysis

Apr 2016 - Jan 2017

- Worked with C++, memory management, 64bit coding patterns in a large code base with 2M LOC
- Developed a static analyzer to help cutting about 90% of human effort. Analyzed C++ code content, process structured content with Regular Expression

EDUCATION & CERTIFICATIONS

University of Technology and Education BSc Software Engineering (Hung Yen, VN)	2014
Incentive Prize, Professional Division · National Olympiad of Informatics	2012
C++ Certified Professional Programmer · $C++$ Institute	2023
Certified Solution Architect Associate · Amazon Web Services	2024