



Bui Anh Khoa

Full Stack Developer

Profile

Summary:

Highly experienced Full-Stack Developer with over six years of expertise in both front-end and back-end development. Proven ability to architect and deliver robust, scalable, and maintainable web applications. Proficient in a wide range of modern technologies and methodologies, including:

- **Front-End:** Angular (2-19), RxJS, NgRx, Akita, ReactJS, NextJS, Redux, Svelte(Kit), and comprehensive UI library experience (Bootstrap, Angular Material, Ant Design, Melt UI, Radix UI, Flowbite, Tailwind).
- **Back-End:** NodeJS, NestJS, Golang, GraphQL, Hasura, and microservices architecture (RabbitMQ, GRPC, Redis).
- **Mobile:** Flutter (1 year experience)
- **Cloud & DevOps:** Extensive experience with Docker, Kubernetes, Azure Cloud Services (Cosmos DB, App Service, AKS, Azure Function, Azure Storage, Key Vault), and AWS (Lambda, SNS, S3, EC2, DynamoDB, ECS, EKS).
- **Methodologies & Tools:** Agile/SCRUM, Git version control, and CI/CD pipeline implementation (GitHub, GitLab, Bitbucket).

Employment History

Full Stack Developer at ST Engineering, Ho chi minh

November 2023 — Present

Health Care Operation Center

Project Description:

- Client is from big hospital in Singapore.
- To address limitations inherent in their current legacy system, the client required a comprehensive redesign leveraging modern technological solutions.
- Challenges:
 - Collaborative Solution Development: Worked within a complex, multi-team (4 teams) environment, actively contributing to the development and finalization of comprehensive system solutions. This required significant effort in cross-team communication and alignment.
- Handle complex cases in systems:
 - ETL (Extract, Transform, Load) processes for seamless data migration and integration.
 - Real-time data subscription services for critical information dissemination.
 - Implementation of robust data update mechanisms to ensure data accuracy and currency.

Details

Ho Chi Minh
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Links

[Github](#)
[Linkedin](#)
[Profile](#)

Skills

SQL
Node.js
MongoDB
Git
React
JavaScript
Angular
NestJS
NextJS
TypeScript
Go
Flutter

Hobbies

Esport

Languages

English
Vietnamese

Summary: Application with real time processing requirement

Team size: 10

Project Technologies: Svelte(kit) (TypeScript), Golang, PostgreSQL, Kubernetes, Keycloak, Hasura, GraphQL

Other minor Technologies: socket

My Position: Full Stack Developer, Technical Lead

My Responsibility:

- Implement critical requirements based on core source code (Make sure there is little or no conflict with core source code)
 - Be a consultant to propose solution to client on both BE and FE
 - Build CI/CD with EC2, GitHub pipeline and Kubernetes deployment
 - Review other members' code and guide them to code on some features
 - Playing BA role when needed
 - Playing PM role when needed
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CRM and Livestream system

Project Description:

- Design and implementation of a scalable CRM and Livestream system featuring:
 - real-time video streaming
 - interactive chat
 - customer data management,
 - automated workflows
 - comprehensive analytics.
 - The system leverages modern web technologies to provide a seamless and engaging user experience.
- Challenges: low latency as much as possible

Team size: 10

Project Technologies: Golang, Next.js, Nest.js, Angular 19, Microservices

Other minor Technologies: socketio, WebRTC (broadcast using Golang),

My Position: Full Stack Developer

My Responsibility:

- Contributed to the system design process.
 - Development both FE and BE
 - Support Devops process
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SSRE (<https://ssreengineering.tech>)

Project Description:

- Landing page with SEO required

Summary: Small project

Team size: 2

Project Technologies: Golang, Nextjs

Other minor Technologies: socketio

My Position: Full Stack Developer

My Responsibility:

- Implement full cycle (FE, BE, Devops)
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Manga Sahara

Project Description:

- Reading comic engine
- Challenges: Performance is the most important to this app (loading image, network, api requesting, UX)

Team size: 3

Project Technologies: Golang, Nextjs, Flutter

Other minor Technologies: socketio

My Position: Full Stack Developer

My Responsibility:

- Implement full cycle (FE, BE, Devops)
 - In charge of BE and Mobile features
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G2B Advertising (<https://g2badvertising.com>)

Project Description:

- Client want to build quotation system with their product about billboards and advertising led
- Challenges: Propose them the whole dashboard solutions

Summary: For internal usage and some external customer

Team size: 2 (Fullstack and Tester)

Project Technologies: Nextjs 14, NestJS (TypeScript), PostgreSQL, Kubernetes

Other minor Technologies:

My Position: Full Stack Developer

My Responsibility:

- Implement all features (FE, BE, Devops) Full Cycle

Full Stack Developer at BLOOM, Ho Chi Minh

March 2022 — November 2023

Dolce Diet (<https://thedolcediet.com>)

Project Description:

- Client is from the USA. they want to rebuild a website for their diet program.

- The features of this website: to generate a professional plan with detail of exercise plan and menu plan based on user's inputted information (weight, height, experience in exercise, ...)

- Maintain old system which is written in Drupal, PHP, AngularJS

- Build Software as a service: Build an infrastructure system to create, update, delete platform using kubernetes, they can manage health checking, status of system

- The first challenge of this project is the data structure. First of all, it is the migration of data collected from Drupal (node styled). The second is to manage every single user with programs (one user has some programs and all have to be stored for history purpose).

- The second challenge is to build infrastructure system which is based on sub process and kubernetes implementation.

Summary: Application with more than 10000 users and ~1000 users online at the same time

Team size: 7

Project Technologies: NextJS (TypeScript), NestJS (TypeScript), MongoDB, Kubernetes

Other minor Technologies: bull, event queue, socket, guard, schedule (cron job), serve static, Swagger, with Jest for unit testing

My Position: FullStack Developer, Technical Architect for BE, Devops

My Responsibility:

- Choose solution and tech to be implemented
- Build the architecture of Back End and Database (the whole BE)
- Implement complex features for FE and BE
- Deployment, Backup, Build cron job.
- Build CI/CD with VPS, Bitbucket pipeline and dockerhub private.
- Write the code based on detailed design and Functional/Requirement Specifications
- Incident and bug fixing
- Upgrade version of PHP/Drupal to pass Braintree policies (Which I just started to learn)
- Review other members' code and guide them to code on some features
- Created a RESTful API that allowed for seamless integration with other applications
- Build Kubernetes template, research and develop the auto create, update, delete client's platform

D-Producer (<https://producer.dratini.tech>)

Project Description:

- Client is from Viet Nam. This is a product of them which helps to create a script to perform led, electronic valves to make a water fountain playing with music.

- Build system from scratch with Backend, Frontend, Firmware.
- The challenges of this project is integration between software and hardware, the solution needs to be test and find again and again until it meets the best quality. (Like R & D)

Summary: Application will launch in the end of this year.

Team Size: 1 Developer, 1 tester

Project Technologies: Angular, NestJS (TypeScript), MongoDB, Python, Microservice (GRPC), GraphQL

Other minor Technologies: Socket IO, Embedded

My Position: FullStack Developer, Architecture

My Responsibility:

- Build whole system based on requirement
- Fix Bugs

Full Stack Developer at NASHTECH, Ho Chi Minh

June 2020 — November 2021

CNC Machine Software

Project Description:

- Client is from Germany working in domain Manufacturing. In this project, they provide customer a software which controls the CNC Machine and some other features out of this machine function
- My task in this project is to build a page to remote other computer (RDP, VNC, SSH), all function need to work on touch screen.
- The architecture is Micro front-end
- The challenges of this project is the gesture of touch screen, and the working of touch screen to control other computer which is harder to do with a mouse.

Summary: Application for individual machine to run local

Project Technology: Angular 9, Electron, Golang, Micro Frontend

My Position: Frontend Developer (Angular and Electron)

My Responsibility:

- Write the code based on detailed design and Functional/Requirement Specifications
- Build architecture of the app.
- Support Deployment
- Incident and bug fixing
- Support other member with technical
- Be mentor of a Junior Front-end member

Smart Manufacturing Management

Project Description:

- Client is from Germany working in domain Manufacturing. In this project, they provide customer a system to monitor there production lines with a big amount of machine.

- Customer can view the production status (complete, on going) near real time, and these applications are deployed to IPC.
- The challenges of this project is the structure of data to show in Front end (which is hierarchy has 4 levels of children)

Summary: Application with more than 100 active users

Project Technology: Angular 11 Java and SQL

My Position: Frontend Developer (Angular)

My Responsibility:

- Write the code based on detailed design and Functional/Requirement Specifications
 - Build architecture of some module
 - Collect requirement from client and suggest solution about UI/UX and workflow to client
 - Incident and bug fixing
 - Support other member with technical
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Wealth Management

Project Description:

- Client is from Italy. They are a finance company which provide wealth management solution for their customer, and my ODC is a vendor. and there customer comes from USA
- This is a wealth management website which is implemented from Finantix's product and it is customized to match customer's requirement. Features of this web: wealth management, wire transfer management.
- The challenges of this project is performance issues and integration of JBPM (Java Business Process Management) into application.

Summary: Application with 10M+ users

Project Technology: Angular 7, Java, SQL

My Position: Front-end Developer (Angular)

My Responsibility:

- Write the code based on detailed design and Functional/Requirement Specifications
- Build architecture of some module
- Collect requirement from client and suggest solution about UI/UX and workflow to client
- Incident and bug fixing

Full Stack Developer at GLOBAL CYBERSOFT, Ho Chi Minh

February 2019 — June 2020

Vidole

Project Description:

- The client of this project is from France, they are an art, comic design company and they want to sell their designed products

- This is an e-commerce website. The objective of this project is to develop an e-commerce store which product is self-created books (customer can create their own characters and own stories). All created books will be verified and be printed automatically and then be shipped with 3rd party shipping company. Customers also can manage their orders and track their goods.
- The challenges of this project are to build the characters styling, stories generating system and the automatic printing service through server.

Project Technology: Angular 9, NestJS, MongoDB

My Position: Developer, Team lead

My Responsibility:

- Write the code based on detailed design and Functional/Requirement Specifications
 - Build architecture of some module
 - Collect requirement from client and suggest solution about UI/UX and workflow to client
 - Incident and bug fixing
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Polymate

Project Description:

- The client is from France. They are a multimedia company and they want to make a social network call 'Polymate'
- This project is a social network application could be called 'small facebook'. User can post image, video, like/unlike, block/unblock, give heart to other user. A heart is converted to 0.02\$ and will be paid through PayPal
- The challenges of this project are implementing micro service for chat and load balancing

Project Technology: React Native, NestJS, MongoDB

My Position: Back-end Developer

My Responsibility:

- Write code based on detailed designs and Functional/Requirement Specifications
 - Incident, bug fixing, deploy and maintain server on Google cloud
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MeatChef E-commerce

Project Description:

- Client of this project is from Viet Nam, they are a food company and want to build an online store with company's activities management
- This project contains e-commerce website and admin website. Almost features of store website are buying/commenting/voting product, order managing, goods tracking and live streaming. In the admin website, admin can manage products they sell, manage orders and shipping system, manage employees, analysis data in week and month.

- There are some challenges in this project such as: data analysis, live streaming solution and employees management

Project Technology: Angular 8, NodeJS, MongoDB

My Position: Developer

My Responsibility:

- Write code based on detailed designs and Functional/Requirement Specifications
- Collecting requirement and suggest solution for UI/UX and workflow of modules.
- Incident and bug fixing

➲ Education

Bachelor of Engineering, University of Information Technology, Ho Chi Minh

July 2015 — July 2019

High school for the Gifted, Ho Chi Minh

April 2011 — July 2014

★ Freelancer Work History

What To Eat, Ho Chi Minh

November 2023 — Present

What To Eat (<https://eatwhat.io.vn>)

Project Description:

- My Community project
- Project about: provide ingredients and dishes recipes for all countries all over the world
- Some highlight features: random game, voting game.

Summary: Do Full cycle of project

Team size: 2 (1 Fullstack, 1 Product Owner)

Project Technologies: Svelte(kit) (TypeScript), Golang, MongoDB
Kubernetes, Rest API, GraphQL

Other minor Technologies: socketio, mux, gorm, gqlgen, mongo driver.

My Position: Full Stack Developer

My Responsibility:

- Implement Features
- Build CI/CD with VPS, github pipeline and kubernetes deployment

Smart farm, Ho Chi Minh

March 2022 — March 2023

Project Description:

- Client is from the USA. they want to build a bio safety evaluation website for their smart farm (this is the first step for a huge program).
- The features of this website: to build sets of questions, user will answer all of it then a report is generated and they can compare

between reports and come to the conclusion with actions for their farms. all reports can be exported to excel file

Summary: Application with more than 200 active users, 100 online users at the same time and plan to be scaled up in a short time

Team size: 3 (2 developers and 1 tester)

Project Technology: ReactJS (TypeScript), NestJS (TypeScript), MongoDB, microservices with RabbitMQ

My Position: FullStack Developer, Technical architect from the beginning for both FE and BE

My Responsibility:

- Provide client some smart solutions for their marketing problems.
- Choose solution and tech to be implemented.
- Build the architecture of Back End, Front End and Database
- Deployment, Backup, Build cron job.
- Build CI/CD with VPS and github pipeline.
- Write the code based on detailed design and Functional/Requirement Specifications
- Incident and bug fixing
- Review other members' code and guide them to code on some features
- Deliver to customer with defined timeline

Orders Management, Ho Chi Minh

January 2022 — March 2022

Project Description:

- Client is from Vietnam. they want to build a website to manage orders, customers, products to provide best customer care service.
- The features of this website: Products management, Customers management, multiple departments with multiple roles, orders management, delivery management. Besides, there are report, cron job to analyze customer (new, old, ...). The process of raising order is harder than other CRM software
- The challenges of this project is the roles and multiple department, which means department A can not see anything of department B if not taking part in. Beside that, in each department there are roles such as: leader, sale president, warehouse, ... These challenges are hard for both FE and BE.

Summary: Application with more than 20 active users

Project Technology: Angular 13 (TypeScript), NestJS (TypeScript), MongoDB

My Position: FullStack Developer, Technical architect

My Responsibility:

- Choose the solution to be implemented
- Build the architecture of Front End, Back End and Database (the whole app)
- Deployment, Backup, Build cron job.

- Build CI/CD with VPS and github Action.
- Write the code based on detailed design and Functional/Requirement Specifications
- Collect requirement from client and suggest solution about UI/UX and workflow to client
- Incident and bug fixing

Animal Farm Management, Ho Chi Minh

May 2021 — January 2022

Project Description:

- Client is from animal food company supplier in Vietnam. they want to build a website to manage expense and avenue of money when buying supplier and selling animal (pig)
- The features of this website: warehouse management, which manages importation and exportation of animal feed, medicine, equipment. Stall management, which manages pigs, with pretty flexible workflow of many types of pig. Report module, which calculate by day or by month the expense and avenue to provide the overview and detail of their business.
- The challenges of this project is the database structure because the business is not quite clear so I must follow their business to build the best solution.
- Some features: email notification, data chart visualization, pigs management, feeding, selling, importing

Summary: Application with more than 100 active users

Project Technology: Angular 11 (TypeScript), NestJS (TypeScript), MongoDB

My Position: FullStack Developer, Technical architect

My Responsibility:

- Choose the solution to be implemented
- Build the architecture of Front End, Back End and Database (the whole app)
- Deployment, Backup, Build cron job
- Write the code based on detailed design and Functional/Requirement Specifications
- Collect requirement from client and suggest solution about UI/UX and workflow to client
- Incident and bug fixing

✉ Internships

QA/QC at AMPERE, Ho Chi Minh

September 2018 — January 2019

Developing a test framework based on robot framework using Python. This framework is used for baseboard management controller(BMC) testing (health test, stress test, performance test, OS test, website test, ...)

Main responsibilities:

- Write test case follow BMC's spec
- Develop new features for test framework (Auto login, Auto save log, ...)

Recognition and Gains:

- Robot framework
- Python programming
- Experience in finding bugs