



# Bui Anh Khoa

Full Stack Developer

## Profile

- More than 5 years experiences in Front-end development
- More than 5 years experiences in Back-end development
- Good experience in Angular 2+, Angular 18, RxJS, ngRx, Akita, ReactJS, NextJS, Redux, Svelte(kit)
- Good experience in BE development (NodeJS, NestJS, Golang)
- Good experience in material library (Bootstrap, Angular Material, Ant design)
- Good experience in material library (Bootstrap, Angular Material, Ant design, Melt UI, Radix UI, Flowbite)
- Have experience in GraphQL, Hasura
- Have experience in micro-service (RabbitMQ, GRPC, Redis)
- Good experience in Docker, Kubernetes (Deployment, statefulset, service, ingress, ingressRoute, config map)
- Have experience in Azure Cloud services (Cosmos DB, App Service, AKS, Azure Function, Azure storage, Key Vault)
- Have experience in AWS (Lambda, SNS, S3, EC2, Dynamo DB, ECS, EKS)
- Good experience in Agile and SCRUM
- Good experience in Source Version Control (Git)
- Good experience in CI/CD, pipeline (Github, Gitlab, Bitbucket)
- Good experience in problem solving

## Details

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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

## 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.
- Their current system is being in used but it is technically old so they need a new version and new technique stuffs in their system.
- Challenges: There are 4 teams in this project so to finalize solution it takes a lot of effort. In my case, I need to transform their idea into reality with demos, explanations and proposing solutions.
- Handle complex cases in systems: ETL, data subscription, data latest updating

**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

**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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**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
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### 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
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## Smart Manufacturing Management

**Project Description:**

- Client is from Germany working in domain Manufacturing. In this project, they provide customer a system to monitor their 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 call 'small facebook'. User can post image, video, like/unlike, block/unblock, give heart to other user. A heart is convert 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 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 there 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