

# Alex Nguyen

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## SUMMARY

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Programming Language Proficiency: Typescript, Go, Python

Tool Proficiency:

- Frontend: ReactJS, NextJS
- Backend: Python (Flask), NodeJS (Express, NestJS), Go
- Devops: Docker, Kubernetes, Helm, KrakenD, Terraform, CICD

Software Methodology Proficiency: Agile/SCRUM, Waterfall, Git

Task Management Tool: Trello, Jira, Azure Devops

Cloud Computing Services: AWS, Azure

Monitoring Tool: Grafana, Prometheus

## EDUCATION

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**Ho Chi Minh City University of Technology and Education**

2014 - 2017

*Major: Information Technology*

## EXPERIENCES

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**Alfagomma Pacific PTE LTD**

Feb 2023 - Present

*Senior Software Engineer*

- Built an application from scratch to help B2B Customers manage the products bought from ALFAGOMMA.

**Annotab PTE LTD**

Mar 2023 - Jun 2024

*Co-Founder & Founding Engineer*

**As Co-Founder**

- Collaborated with Founder to operate startup's business.
- Networked with other startups and venture capitalists (VCs) at tech events, actively worked on processes to assist the company in securing funding from VCs. Established key partnerships and investor relations.

**As Founding Engineer**

- Led a team of software engineers in designing, developing, and maintaining robust and scalable software solutions.
- Drove the technical vision, architecture, and roadmap for the products, ensuring alignment with business objectives and industry best practices.
- Mentored and coach team members, fostering a culture of continuous learning and professional growth.
- Collaborated with cross-functional teams including design, quality assurance, and marketing to deliver high-quality software products on schedule.
- Stayed abreast of emerging technologies and trends, evaluating their potential impact on product's stack and drove innovation initiatives.

**NFQ Asia**

Jun 2021 - Jan 2023

*Senior Software Engineer*

- Led a small frontend team with 4 members, also handled backend and devops tasks.
- Estimated, performed feasibility analysis and forecast risks and planned the delivery for new requirements.
- Designed the structure for frontend code base, wrote CICD pipelines in Azure Devops, configured Sonarqube for code coverage (>80% code coverage rate for Frontend).
- Restructured a mono frontend to micro frontend using single-spa and module Federation.
- Built frontend common library using Storybook which is published to Azure Artifact.
- Built SwaggerUI to visualize all service APIs

*Software Engineer*

- Tech stack : ReactJS, JQuery, Laravel, Pusher, GraphQL
- Developed and troubleshooted over 15 outsourcing projects from over the world.
- Worked with React, Pusher, Echo for realtime components.
- Implemented backend features in Laravel Framework.

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**Neolab VN**

Jul 2020 - Jun 2021

*Software Engineer*

- Tech stack : VueJS, Laravel, Redis, Lumen,...
- Estimated, performed feasibility analysis and forecast risks and planned the delivery for new requirements.

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**Ambition VN**

May 2019 - Jul 2020

*Software Engineer*

- Built a JQuery/VueJS + Laravel admin site and other modules based on the client's requirement.
- Maintained custom Javascript codes for front-end validation and better UI/UX, e.g searching bar, google map, ...
- Designed workflow and implemented the business process using RPA Winautomation, UiPath combine Python, VB scripts.

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**LeanTech**

Aug 2018 - Apr 2019

*Intern Software Engineer*

- Built an ERP website for a real estate corporation based on the business handling document.
- Implemented custom modules based on Gin/Gorm for backend, e.g product module, property module,...
- Implemented UI pages for the backend modules using SPA AngularJS, rewrote SQL scripts to accurately reflect current business requirements.

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**PROJECTS**

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**Alfratraka (Alfagomma Pacific PTE LTD)***Project Overview:*

- Alfratraka is a cloud-based software with 100% traceability to easily deliver a replacement product. We register the product or system and all components included.

*Key Responsibilities:*

- Led the entire frontend application initiative, implementing a structured approach by consolidating mobile and web platforms into a monorepo using NX.

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**Annotab Studio (Annotab PTE LTD)***Project Overview:*

- Annotab Studio is a data annotation and management platform that makes collaboration easy. Annotab Studio is a product of Annotab AI - a complete and centralized solution for seamlessly building and deploying artificial intelligence models.

*Key Responsibilities:*

- Structured a DevOps repository to automate infrastructure using Terraform, ensuring seamless Terraform state synchronization across multiple devices.
- Designed an automated CI/CD workflow across diverse environments using GitHub Actions, ECR, and ArgoCD.
- Developed and integrated core features such as automatic object classification, entity recognition, and sentiment analysis using the Segment Anything Model (SAM) and Grounding DINO Model.
- Implemented STRIPE payment integration within the application, enabling users to subscribe to various plans effortlessly.
- Optimized infrastructure costs to support efficient AI model operations. Initially deployed on AWS ECS for beta release, migrated to AWS EKS for the official release phase.
- Configured Grafana and Prometheus to empower the development team with comprehensive capabilities to trace logs, debug issues, and monitor performance across multiple environments seamlessly.

## **Dreamrobot (NFQ Asia)**

### **Project Overview:**

- DreamRobot is an e-commerce management software designed to help online retailers streamline their operations. It offers a variety of features aimed at automating and optimizing different aspects of an e-commerce business.

### **Key Responsibilities:**

- Designed an automated CI/CD workflow across diverse environments using Azure Pipeline, ACR, and Bash scripts.
- Architected multiple ecommerce platforms that seamlessly integrate with Dreamrobot (e.g., Gambio, Manomano, Etsy), ensuring robust connectivity and scalability.
- Configured Grafana (LPG, TIG) for tracing and logging purposes. Setup Grafana Alert through contact point (Teams, Email), Ingress NGINX Controller to replace apache mod-php in Kubernetes, reduced request time.
- Established a foundational UI repository using Storybook and published it to Azure Artifact, enabling all frontend services to easily install and leverage shared components.

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## **UN1T UK (B13 Technology)**

### **Project Overview:**

- UN1T is a fitness brand based in the UK, known for its group training programs that emphasize teamwork and community. The training sessions at UN1T combine elements of high-intensity interval training (HIIT), strength training, and conditioning, designed to challenge participants and improve their overall fitness levels.

### **Key Responsibilities:**

- Designed and developed the project from inception, implementing essential features bridging frontend and backend technologies with Laravel, Lighthouse, ReactJS, Apollo Client, and GraphQL.
- Developed an Admin Dashboard using React Admin as the foundation.

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## **PSA International**

### **Project Overview:**

- PSA International (formerly known as Port of Singapore Authority) is one of the world's leading port groups and a trusted partner to many global stakeholders in the shipping and logistics industries. Headquartered in Singapore, PSA International operates a network of over 50 terminals in 26 countries across Asia, Europe, and the Americas.

### **Key Responsibilities:**

- Developed new features enabling pilots to book examinations and secure job opportunities in real-time via mobile devices (iPad) using MQTT integrated with ExpressJS.
- Maintained existing features by upgrading outdated libraries and optimizing SQL queries, ensuring smooth operation of the application.

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## **Cevinio**

### **Project Overview:**

- Cevinio is a company specializing in automated invoice processing and accounts payable solutions. It leverages advanced technologies, such as artificial intelligence (AI) and machine learning, to streamline and optimize the invoicing process for businesses

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## **Kireilign (Neolab VN)**

### **Project Overview:**

- a Japanese brand specializing in clear aligners for teeth straightening. The site offers detailed information about the brand's services, including the types of dental misalignments they can treat, treatment duration, costs, and the availability of whitening treatments. It also features before-and-after case studies and a list of affiliated clinics.