

# Tuan Nguyen

## Fullstack Developer

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Up-to-date version of CV is available at

<https://tuannnguyen.kanthorlabs.com/>

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JavaScript   TypeScript   TypeScript   NodeJS   Golang   .NET   PostgreSQL   MySQL  
CI/CD   Kubernetes   ELK   AWS   GCP

A seasoned Backend and DevOps developer with 8+ years of experience in building and scaling large systems, leading technical teams, and delivering impactful solutions. Passionate about mentoring, continuous learning, and leveraging technology to achieve business objectives.

## Professional Experience

[Upmesh](#), Singapore

Principal Engineer

Apr 2021 - Dec 2024

Becoming a Principal Engineer at a rapidly growing startup has been one of the most enriching experiences I've ever had. During my tenure at Upmesh, I had the privilege of collaborating with exceptional colleagues, engaging in strategic planning, and addressing the evolving requirements essential for meeting our business objectives.

Key Responsibilities:

- Orchestrating and refining operational workflows to seamlessly accommodate constantly changing demands ([Gitflow at a startup](#))
- Offering guidance to fellow engineers while assisting them in enhancing their design prowess ([The art of Export](#), [The art of Import](#))
- Delving into performance bottlenecks, embracing the lessons derived from errors, and disseminating these insights to our team members through tech talks and presentations ([When index scan is slower than full table scan](#), [The ID chosen](#))

Achievements

- Pioneering the design and implementation of a scalable and highly available webhook system, capable of handling over **2 million events daily** and sustaining **2000 events per second at peak-time** for a minimum of three hours.
- Collaborating with a team to conceptualize and construct an efficient and dependable data pipeline tasked with transforming data sourced from our primary databases (MySQL and PostgreSQL) into Elasticsearch, enabling responsive full-text search capabilities.
- By executing cost optimization strategies within the AWS cloud environment, we achieved a **\$37,000 annual cost reduction**, significantly enhancing Upmesh's financial performance. You can find more details at my blog post [Saving \\$37K annually on our AWS bill](#)

.NET   NodeJS   JavaScript   Golang   Elastic Stack (ELK)   Kubernetes   AWS   nats.io   RabbitMQ   MySQL   PostgreSQL  
DevOps   Temporal

[Boomerang.Isentia](#), HCM

Technical Leader

Mar 2018 - Apr 2019

As a Technical Leader at the #1 media monitoring, intelligence and insights solution provider in Vietnam, I was responsible for developing a platform that enables clients to monitor their customer conversations in real-time.

#### Key Responsibilities:

- Designing and building a large-scale data crawling system to gather information from various sources including social media platforms like Facebook, Youtube, Instagram, and Vietnamese forums, among others.
- Managing a robust database system using Elasticsearch for storage and Kibana for visualization.
- Automating the software release process using custom scripts.

#### Achievements:

- Designing a crawler system that can make over **30 million requests** and collect **15 million documents** per day
- Maintaining two Elasticsearch clusters that stored more than **5 billion documents**, amounting to approximately **15TB of text data**
- Reducing the release time from 4 hours to **30 minutes**
- Achieving a minimum code coverage of **80%**.

NodeJS   ReactJS   ELK Stack   Kubernetes

## Others

### Apr 2019 – Apr 2021

As a Senior Engineer at [2359Media](#), a top enterprise Chatbot in Singapore, I served prominent clients like Melco Resorts, Bank of Singapore, and Sacombank in Vietnam. My role involved maintaining DevOps workflows, designing MVP projects for pre-sales, and sharing expertise with team members. Notable achievements include implementing a GitOps workflow, developing a Voice Bot Platform on GCP deployed to K8S clusters, ensuring code quality with rigorous testing, and hosting technical talks on various topics

### 2016 – 2018

Managed and maintained an e-commerce platform based on the Yii framework (PHP) at [Tagrem Corp](#) for [Mattresses by Serta](#).

Completed freelance projects utilizing NodeJS, ExpressJS and MySQL

### 2015 – 2016

Developed marketplaces for real estate ([NhaDatSo](#)), vehicles ([XeHoiViet](#)) and jobs ([MangViecLam](#))

## Additional experience

- Conduct research, design, and implement my personal projects: [kanthorlabs](#)