

**Tri Nguyen**

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2<sup>nd</sup>, May 1997

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## Objectives

A software development graduate who loves writing software that people use and maintain for years and years

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## SKILLS & TECHNOLOGIES

NodeJS, Java, MongoDB, JavaScript, BigQuery, RabbitMQ, Git, Ubuntu, Elasticsearch

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## EXPERIENCE

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### Backend Leader – ABIVIN

January 2021 – Present

- Lead a team of 4, responsible for entire ABIVIN's backend development
- Led a cross-functional team (backend and frontend engineers) which fixed reported vulnerabilities to obtain a penetration testing certificate
- Recorded various of API measurements, constructed internal dashboards using recorded data and Metabase
- Led a refactoring project which covered dozens of thousands of lines of code
- Host weekly, daily meeting (if required, project dependant)
- MongoDB collections to Elasticsearch indices syncing (including data transformation)
- Setup Gitlab CI / CD pipelines, including daily / merge request based SonarQube scans and daily code-merging to feature branches

### Backend Engineer – ABIVIN

March 2019 – December 2020

- Implemented Elasticsearch (Ngram) for a system-wide audit log functionality, configured an automate rollover policy for the audit log
- Deployed an Elasticsearch cluster for production environment
- Broke parts of the app into micro-services, implemented RabbitMQ between services
- MongoDB to BigQuery data syncing, transforming (both ETL and ELT included)
- Implemented BI dashboards based on data synced from MongoDB (BigQuery queries written in standard SQL, data visualisation using Metabase)
- Key member of data team, responsible for reports and BI dashboards (Python, ReactJS)
- Key member of significant projects (Saigon New Port – SNP, Coteccons, DHL)
- Optimised (memory consumption reduction – streaming fashion) the file uploading process
- Improved database reading performance, up to dozens of times faster during peak hours on tens / hundreds of million-record collections (MongoDB – re-indexing, single-field index, compound index, covered index, partial index, pre-computed values – ETL, Redis)
- 2019 Employee of the Year, 2020 Nov Employee of the Month

**JavaScript Developer – Audience Serv****August 2018 – February 2019****Galaxy**

- Worked directly with CEO and tech lead to build an internal site from scratch that deals mostly with user profiles, using MERN stack (MongoDB, ExpressJS, ReactJS, NodeJS)
- Data uploading (CSV) / data pushing (APIs)
- Data cleaning (duplicated, ambiguous, invalid values, blacklisted)
- Data distributing (via HTTP and message queuing protocol - RabbitMQ) to third-parties via API call (all external and internal API calls are logged)
- Files (up to GBs) are processed in a queue and in a streaming fashion
- Responsible for most parts (developing, testing, deploying) of the project
- 70 million user profiles initial, ~800,000 user profiles processed daily

**Others**

- Data crawling from third-parties (NodeJS / PHP and MySQL)
- URL shortening service (MySQL, NodeJS, plain HTML, JavaScript, AWS) for internal usage

**Project Team Leader (University Project)****February 2018 – May 2018**

- NodeJS, ExpressJS, MongoDB as back-end, EJS as front-end
- CRUD operations on user, restaurant, review
- Restaurant filtering in list view and map view
- MongoDB text index (full-text search) with socket.io for bi-directional communication between web clients and servers when searching for restaurants
- Led a team of 3

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**EDUCATION**

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**Bachelor of Engineering**

The University of Sheffield  
Sheffield, United Kingdom  
2015 - 2018

Software Development for Business, Merit ~ Class Two Division One Honours

First-Class Grade in NodeJS module

First-Class Grade in Java programming module

First-Class Grade in dissertation module (Java XML parsers benchmarking)

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**LANGUAGES**

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**English** – 6.5 IELTS as of May 2015

**Vietnamese**

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## OTHERS

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**Social:**

- Captain – Vietnamese Society Sheffield Football Team (2015 - 2017)
- Event Officer – Vietnamese Society in Sheffield (2016 - 2017)

**Achievements:**

- SVUK's Talent Hunt – Choice Award (2017)
- SVUK Football Cup – Champion (2017)
- Abivin 2019 Employee of the Year (2020)