

# DUY NGUYEN

Software Engineer

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## OBJECTIVE

Graduated Master Student at UCL major in Software Engineering. Applying for Software engineer role. Experienced in building full-stack applications and have developed projects for Microsoft. Strong problem solving skill, competitive thinker, enjoy working under high pressure.

## CERTIFICATIONS

**2022**  
Master of Science (MSc)

**2021**  
Bachelor of Science (BSc)

## EDUCATION

2021 - 2022  
**SOFTWARE ENGINEERING MSC**  
University College London  
**Grade:** Merit

2018 - 2021  
**COMPUTER SCIENCE BSC**  
Queen Mary: University of London  
**Grade:** First

## SKILLS

**Languages**  
HTML, CSS, JavaScript, Python, Java, C#

**Frameworks**  
ReactJs, Django, Bootstrap, JQuery, Xamarin

**Database Management System**  
MySQL, SQLite

**Others**

- Good understanding of OOP methodologies, design principles, http, web-socket protocol.
- Hands-on experience with 'Cloud Computing Platforms: Azure'
- Have experience using Docker, setting up CI/CD and performing automated testing using Selenium

## PROJECTS

**Multi-tenant Microsoft Learn LTI** - Improve the LTI tool to allow multitenancy  
6/2022 - 9/2022  
**Name of customer** Microsoft  
**Team size** 6

**POSITIONS** DEVELOPER, UNIT/UI TESTER

- Improve cloud deployment time, intuitiveness and feature extensibility for future development.
- Improve Debugging process by design and create a tool to improve deployment time and enable selective deployment of specific components.
- Refactor legacy code and improve documentation for intuitiveness.
- Implement multi-tenancy for the LTI.
- Rewrite security code to enable the handling of multi-tenant HTTP requests.
- Set up CI/CD and Selenium to perform UI and Unit-testing of core features.

**TECHNOLOGIES**  
React, Typescript, Azure Active Directory, Azure Functions, Github Action.

**Microsoft Performance AI** - **POSITIONS** REQUIREMENT ENGINEER, DEVELOPER, UNIT/UI TESTER

A tool to help visually impaired people to fairly compete in race

11/2021 - 4/2022

**Name of customer** Microsoft

**Team size** 6

- Requirement engineer Functional Viewpoint, design database schema, migrate front-end architecture to MVVM (Model View View-Model)
- Implement and Improve UI for all use-cases.
- Implement and Integrate audio signal with route monitoring for improve real-time exercise guidance.
- Set up Selenium to perform automated unit testing on UI and back-end services. This helped build the test foundation for future development.

#### TECHNOLOGIES

Cross-platform Xamarin, Python, Soundscape, Bonsai

**Artnote** - Real-time drawing platform for artists

9/2020 - 4/2021

**Name of customer**

Final Year Project

**Team size** Individual

**POSITIONS** REQUIREMENT ENGINEER, DEVELOPER, UNIT/UI TESTER

- Design functional, non-functional requirements, database schema, adapt web-socket protocol communication.
- Design and implement permission control system to manage multiple user real-time interaction. This allows users to draw on the canvas simultaneously without interfering with each other, such as: accidentally erasing lines, et.
- Set up back-end servers for handling web-socket requests, performance tuning of code base, load testing user interaction against Docker database.

#### TECHNOLOGIES

React, Django, Docker, Rail.

**On-line Examination website-**

Website for lectures and students to create, host and participate in exams

9/2020 - 4/2021

**Name of customer** None

**Team size** Individual

**POSITIONS** REQUIREMENT ENGINEER, DEVELOPER, UI TESTER

- Design functional, non-functional requirements, database schema.
- Design and implement all UI for landing page, exam board and examination page.
- Design and implement back-end service for handling HTTP requests.
- Create API for handling CRUD requests.
- Setup MySQL database with Apache and create schema.

#### TECHNOLOGIES

React, Apache, PHP

**Climate** - Website for mobile devices to check the current weather presented through a cartoon character with different animation

9/2020 - 4/2021

**Name of customer** None

**Team size** 4

**POSITIONS** REQUIREMENT ENGINEER, DEVELOPER

- Designed functional requirements.
- Draw a design the animations for the character and background weathers.
- Implement UI and animation of the character.
- Implement communication with weather API to retrieve real-time updates of weather at a specific location.
- Implement dynamic UI theme changes based on the current weather and time.

#### TECHNOLOGIES

React, Apache, PHP