

Tuan Dat Nguyen

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github.com/rexxttd • dandevstuff.netlify.app

A passionate full-stack developer adept at crafting seamless user experiences across desktop and cross-platform applications, fueled by a fervent dedication to advancing the possibilities of information technology.

WORK EXPERIENCE

Software Engineer

Aug 2024 - Present

Wanzl GmbH & Co. KGaA

Ho Chi Minh City, Vietnam · Hybrid

- Built and maintained **.NET (8/9/10) backend services** and REST APIs with Swagger, following clean architecture and OOP
- Designed and implemented **IoT device** ↔ **cloud communication** using MQTT and async messaging (AsyncAPI)
- Worked directly with **real hardware** (ODROID, controller boards, barcode/QR/NFC scanners) for integration and testing
- Owned cloud VM infrastructure**: Dockerized services and managed deployments using Portainer; monitored system health with Beszel
- Researched and implemented solutions using **AI tools (Claude Code)** to accelerate development and problem-solving
- Set up and maintained **Azure services** (Azure Functions, cloud messaging, APIs)
- Implemented **Mender OTA updates** and configured **Ubuntu environments** for IoT devices
- Built **CI/CD pipelines** and implemented **unit + Playwright E2E testing**

Quality Assurance Tester

Sep 2022 - May 2024

Nexon Networks Vina

Ho Chi Minh City, Vietnam · On-site

- Bridged communication between QA and Korea-based developers to ensure smooth workflow and fast issue resolution.
- Thoroughly examined project requirements to create detailed test cases, covering all aspects.
- Tested complex features, identifying and documenting issues to improve performance and user experience.
- Utilized advanced bug-tracking tools to document and report issues promptly, minimizing disruptions.
- Led the team, managed tasks and timelines, resolved risks/issues, and promoted quality through mentoring and test automation.

AI Developer Internship

Feb 2022 - Oct 2022

TMA Solutions

Ho Chi Minh City, Vietnam · Hybrid

- Conducted thorough research and evaluation of **OCR tools**, assessing performance and suitability for applications.
- Rigorously tested **Deep Learning-based OCR systems** for **text recognition**, identifying strengths and areas for improvement.
- Developed **CNN models** using **Keras** to enhance OCR symbol classification accuracy.
- Explored workflow optimization, including analysis of **Tesseract OCR** processes, to boost efficiency.
- Led AI model development for **Car Parking Detection**, improving accuracy and efficiency through Image Processing and Deep Learning.

EDUCATION

Bachelor of Information Technology

Oct 2021 - Oct 2022

RMIT University Vietnam

Associate Degree in Information Technology

Jan 2019 - Jun 2021

RMIT University

PROJECTS

Portfolio [↗](#)

- <https://dandevstuff.netlify.app/>
- The first version of my personal website that was built and deployed with Netlify.

my TextShortcut [↗](#)

- <https://github.com/rexxttd/myTextShortcut>
- A free-to-use, secure, and fast Windows application that can help to reduce the text workload in multiple languages using Python. Including features such as OCR scanning text, translating text, and comparing text differences.

Hospital for Tropical Diseases Vietnam [↗](#)

- <https://github.com/rexxttd/BVBND-WebApp>
- A Full-Stack web application for the Hospital for Tropical Diseases Vietnam using [MERN Stack](#) and [Socket.io](#)

SKILLS

Programming Languages: C#, JavaScript/TypeScript, Python, Java, SQL

Backend: .NET (8/9/10), Node.js, REST APIs, Swagger/OpenAPI, MQTT, AsyncAPI

Frontend: React, Next.js, Tailwind CSS

Databases: MongoDB, SQL (relational databases), CosmosDB

Cloud & IoT: Microsoft Azure (Azure Functions, cloud infrastructure), IoT device integration, Mender (OTA updates)

DevOps & Infrastructure: Docker, CI/CD (Azure), Portainer, VM setup & monitoring (Beszel), Ubuntu

Testing: Unit Testing, Playwright (E2E), JUnit

REFERENCES

Giang Vu Truong (Department Manager at Nexon Networks Vina) • evan@nexonnetworks.com