

# TRA MY HOANG

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## EDUCATION

**Tampere University** 08/2022 - Present  
Bachelor Program – **Computing and Electrical Engineering**  
Major in **Software Development** and Minor in **Industrial Management**

## WORK EXPERIENCE

**Tampere University, Research Trainee** 01/2023 - Present  
Development of a database for GNSS measurement logging, creating a Dash app that visualizes GNSS (Global Navigation Satellite System) data from a CSV file. The app consists of three tabs: Measurement, Map, and Setting, each displaying different data visualizations.  
**Skills:** Data Visualization, Python (Programming Language), Dash, Bokeh, MongoDB, ...

## SKILLS

**Industrial Management:** key business concepts, customer value, product development, bookkeeping, marketing processes, budgeting, organizational management  
**Programming:** Python, SQL, C++, Java, Matlab, Javascript, HTML, CSS, jQuery, Bootstrap, Linux, SASS, Dash, Bokeh, Panel, GIT, Tiger VNC, Visual Studio Code, QT Creator, Pycharm, GUI, Node.JS, RESTful API, React, Jest, GraphQL Java, JavaFX  
**MS Office:** Word, Excel, Powerpoint, Outlook, Onenote  
**UI/UX:** Visual Design, Sitemaps, Wireframes, User Flows, Prototyping, Responsive Web Design, Figma, Sketch, Typography  
**Design:** Adobe Photoshop, Indesign, Adobe Illustrator, Canva  
**Language:** English, Vietnamese, Finnish  
**Other skills:** Content Creator, Project Management, Photography, Video Editor, Social Media Management, Adobe Lightroom

## PROJECTS

### Website for AI Ecosystem:

This project aims to address the challenges posed by the ever-expanding AI landscape. Our platform serves as an AI marketplace, AI discussion hub, and knowledge repository, offering a comprehensive suite of AI-related services and features

**Skills:** TypeScript, Docker, MongoDB, Node.js, JavaScript, CSS, CI/CD...

### GUI Game Path

This is a C++ Project which I worked in to learn how to design and implement a graphical user interface with Qt. I practiced modularity and especially how to separate user interface from the action logic of the program.

**Skills:** C++, QT

### Web Application for Online Store

This project is an online store using HTML, CSS, JavaScript, Node.js, and MongoDB. I learned HTTP, and web development, such as rendering, templating, session management, and security

and applied various techniques and tools to create a dynamic, functional, and secure web application.

### **Weather Application**

This project involved developing a weather forecast program that retrieves data from OpenWeatherMap and presents it through a graphical user interface. Leveraging JavaFX, the team implemented functionalities such as location search, displaying current weather and forecasts (with various data types like temperature and rain intensity), saving favorite locations, and restoring the program's state upon restart. The project emphasized JavaFX, data visualization, API integration, and comprehensive testing methodologies.

## **CERTIFICATION**

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Fullstack Open 2023 – University of Helsinki  
Typescript - University of Helsinki  
GraphQL – University of Helsinki  
React Native – University of Helsinki  
Matlab Fundamentals & Matlab Onramp  
Responsive Web Design  
Fundamental of Graphic Design  
Bokeh Visualization Guided Project

## **HONORS & AWARDS**

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**Tampere University Tuition Fee Scholarship** 2022 - 2027  
Gain the Scholarship by gaining high SAT score and motivation letter. The Scholarship is valid for both Bachelor and Master's degrees.

## **TEST SCORES**

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SAT, SAT MATH	1450/ 1600
SAT MATH	800/800
ACT MATH	32/40
IELTS	7.5/9.0

## **OTHER ACTIVITIES**

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**Tampere Science and Engineering Association (TaSciEn)** 2022 - Present  
Communication Officer  
Be responsible for TaSciEn's social media account, create articles about next events  
Support Event team's activities

**Tampere Science and Engineering Association (TaSciEn)** 2022 - Present  
Photography Officer  
Be responsible for taking photos during TaSciEn's events