# Thai Hoang Tam

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Address: Frankfurter Landstrasse 56, Darmstadt 64291

Software Developer with a passion for clean, readable code. Looking for a working student or part-time position

## EDUCATION

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| **Technical University of Darmstadt** | Darmstadt, Germany |
| *Master of Science in Computer Science focusing on Distributed Computing* | Apr. 2025 – Present |
| **Vietnamese-German University** | Binh Duong, Vietnam |
| *Bachelor of Science in Computer Science, GPA: 1.3 or 9.4/10* | Aug. 2020 – Oct. 2023 |

- Excellent graduation with a maximum score for the final thesis
- 50% Scholarship 2022-2023, 100% Scholarship 2020-2021
- Eligible for skipping the first year (foundation year)

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| **Frankfurt University of Applied Science** | Frankfurt, Germany |
| *Exchange semester with fully funded DAAD scholarship* | Sep. 2021 – Mar. 2022 |

## EXPERIENCE

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| **Freelance Web Developer for Beestudious** | Remote |
| *beestudious.org* | *TypeScript, NextJS* | Jun. 2024 – Jul. 2025 |

- Creating, deciding on the architecture, and monitoring the website
- Integrating different services to satisfy the customer requirements

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| **Junior Java Developer** | Ho Chi Minh, Vietnam |
| *Unit Technology Corporation* | Feb. 2023 – Apr. 2025 |
| **Eximbank e-Form Management System** | *Java, Spring, OZ e-Form, LDAP* | Dec. 2024 – Apr. 2025 |

- The app enable Eximbank to simplify, optimize and digitalize the document filling process with e-Form
- Staying at Eximbank and working with their members for deploying and updating Kubernetes instances
- I build API endpoints and make some integration with existing Eximbank system (LDAP, other internal services) to query data, preventing input error by human
- Meeting strict deadlines and satisfy all business requirements

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| **Dai-ichi Medic App** | *Java, Spring, Camunda* | Jan. 2024 – Dec. 2024 |

- This app helps Dai-ichi integrate with more than 1000 hospitals/clinics worldwide to simplify the medical examination and payment process
- I am in charge of building one of the core features related to handle payment requests out of the four main features of the web app
- Working with a team of more than 10 people with different levels and roles (Back-end, Front-end, BA, Technical Leader, Project Manager)
- Developing web services with secured Restful API with authentication and authorization
- Integrating with Camunda using BPMN file that map to real business workflow

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| **Intern Java Developer** | *Java, Spring, OZ e-Form, BPMN* | Feb. 2023 – May 2023 |

- Learning about Spring framework (Spring Boot, Spring Data, Spring MVC, Spring Security)
- Building a self project about a book management system
- Collaborating with developer teams to fix bugs found by testers
- Working with multiple projects with tight time schedules
- Writing API for OZ e-Form for a demonstration page, creating new OZ e-Form from Doc files
- Learning about Camunda workflow, BPMN

## PROJECTS

**Remaining Useful Life Prediction of Solar Panels** | *Python, Tensorflow*          Jun. 2023 – Oct. 2023
- This is my thesis about the Remaining Useful Life Prediction of Solar Panels in the Microgrid using a Combination of CNN and LSTM Approaches
- Using and understanding different computing models to give predictions about how much life consumption has been used
- Researching about which factors affect the lifetime of solar panels in a microgrid
- Training CNN, LSTM, and combination models with SSO to predict the lifetime consumption of the next day based on different values such as temperature, voltage, and current

**StockPrediction** | *Python, Tensorflow, NextJS (React), HTMX, Tailwind CSS*          May. 2023 – Feb. 2024
- A full-stack program to predict the stock prices in Vietnam (mostly VN30) using models like CNN, LSTM, and DNN
- The project helps me to understand more about Tensorflow, the NextJS framework, and Tailwind CSS
- Data are getting from API of different sites like FireAnt, Cafef, and SSI board
- The prediction models are trained to predict the closing price of the next day

**License Plate Detection** | *Yolov5, Python, OpenCV, Flask*          Nov. 2022 – Dec. 2022
- Leading a team of three members to make a Python program to detect license plates and show the vehicle's origin
- Collect and label about 2000 images of license plates to trained and detected with yolov5 model
- Using RealESRGAN to upscale cropped license plate
- EasyOCR is used to get the number on the license
- Using and comparing the differences between three modal sizes
- Using Flask to make a basic website where users can upload images and see the detection results

**Real As-stated** | *Hyperledger Fabric, Typescript, React, Node, Docker, Scrum*          Oct. 2022 – Dec. 2022
- Working with a team of six people to make a prototype web app of a real estate trading platform using blockchain-based technology
- Hyperledger Fabric is used to make a permissioned blockchain
- Using Docker to represent peers of the blockchain network
- Develop a Rest API server to connect the front end (React) and back end (Blockchain)
- Follow Scrum framework to make daily meetings

**Etoet** | *Flutter, Dart, Docker, Firebase, Google Cloud Service, Git*          Apr. 2022 – Jun. 2022
- Developed a full-stack mobile application using Flutter with Firebase as the database
- Working with Google Cloud Service to display Google map, and show roads to your friends
- Updating users' location in real-time with Firebase
- Using a geocoding plugin to show the address of the place on the map
- Working with git, creating branches for different features and merging to the main branch

## SKILLS AND HOBBIES

**Programming Languages**: Java, JavaScript, TypeScript, SQL, (HTML/CSS), Python
**Natural Languages**: Vietnamese, English (IELTS 7.5/9.0, TOEIC 970/990), German (B1)
**Hobbies**: Self-hosting (Organize a Proxmox server in Vietnam with Nginx Reverse Proxy to use some services like Vaultwarden, Adguard, etc.), watching movies, reading books, playing instruments