



# NGUYỄN TỰ SANG

SOFTWARE ENGINEER

## About me

I graduated from the University of Engineering and Technology, Vietnam National University and my major is Robotics.

- Diploma type: Good.
- As an eager learner with an enthusiastic, friendly personality, and quickly adapt to new environments.
- The goal is to apply the learned knowledge and learn more practical knowledge and at the same time bring into full play their abilities in the company's development.

## Work Experiences

**AI Internship** | Viettel Network

06/2022 - 08/2022

- Machine Learning
- Computer Vision: Object Detection, Object Tracking, Segmentation
- Basic NLP
- FastAPI and MySQL

**Javascript Developer** | Bravebits

04/2023 - 08/2023

- ReactJs, Typescript, Redux, Redux toolkit
- NodeJs, MongoDB
- Shopify

## Education

**Robotics** | Hanoi University of Engineering and Technology

09/2019 - 12/2023

Gpa: 3.23

## Contact

✉ [nguyentusang18112001@gmail.com](mailto:nguyentusang18112001@gmail.com)

📍 Ha Noi - Viet Nam

☎ 0375766681

## Skills

Main: Javascript, Python, Java

Typescript, ReactJs, NextJs, Bootstrap, Tailwind, Redux, Redux toolkit

Read and research papers to find solutions for problems

Others: MongoDB, SQLite, FastAPI, MySQL, NodeJs, Firebase

## Languages

Ielts: 5.0

Toeic: 740

(Reading/Listening: 345/395)

## Interests

Reading books

Badminton

# Projects

---

## Movie Website

- *Descriptions:*

- Build an online watching movie with ReactJs
- Features: Sign in, sign up, filter, comments (add, edit, delete), account modification, wishlist.

- *Number of members:* 1

- *Technology in use:*

- Frontend: HTML, CSS, Javascript, ReactJs, Redux toolkit
- Backend: API, Json-server, Firebase

Link website: <https://movie-website-reactjs.vercel.app/>

## Account Management

- *Descriptions:*

- Developed secure user authentication and registration functionality for websites, employing password encryption and JWT token-based login mechanisms.

- Implemented JWT token authentication system for user login, ensuring robust security measures.

- Stored user data securely in databases as part of website registration and authentication feature development.

- *Number of members:* 1

- *Technology in use:*

- Frontend: Reactjs, Redux-toolkit, Bootstrap
- Backend: NodeJs, ExpressJs
- Database: SQLite

- *Link project:* [https://github.com/sang18112001/VHT\\_Ex2.git](https://github.com/sang18112001/VHT_Ex2.git)

## Trello App

- *Descriptions:*

- Build an API (CRUD) with NodeJs (Express js) and connect to MongoDB.
- Features: Drag-drop, add, delete, edit, and optimize

- *Number of members:* 1

- *Technology in use:*

- Frontend: ReactJs, Typescript
- Backend: NodeJs, MongoDB

## Inverse Kinematics with AI

- *Description:*

- Create data from Forward Kinematics for Neural Network
- Build a model to learn from such data
- Resolve inverse kinematics problem with trained model
- Implement this problem on real robots

- *Number of members:* 1

- *Technology in use:* Matlab