

NGUYEN DINH LOC

SOFTWARE DEVELOPER



CONTACT

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SKILLS

- Python
- C# (Basic)
- JavaScript, HTML (Basic)
- PostgreSQL
- Problem-Solving
- Git
- Django

LANGUAGES

- English B2
- TOEIC 605

COURSE-PRACTISE

- Udemy - The Complete Full-Stack Web Development Bootcamp (In progress)
- Practise Algorithm and Data Structure on Leetcode



SUMMARY

I graduated with a degree in Electronics and Telecommunications Engineering from Ho Chi Minh City University of Technology. I have 2.5 years of experience as a software developer, primarily working on automation applications for the construction industry. My expertise includes Python and C#, and I have experience working in Agile environments. I am eager to learn new technologies and apply them in real-world projects.



EDUCATION

- **Electronics-Telecommunications Engineering** 2018 - 2022
Ho Chi Minh City University of Technology



WORK EXPERIENCE

GSI Group LLC 7/2022-- PRESENT
Python Developer

PROJECTS AT COMPANY

1. Automated Reinforcement

Description

- The tool support engineer automatically create rebar for engineer in column, wall, wall connection, etc.
- Support engineer place rebar in the right position in 3D space. In technical view, need to have knowledge related to Matrix3D, Matrix2D.
- Connect to Cloud software to get data and adapt to the rebar in main application.
- We use an internal framework support caculate, create geometry (for example: Point3D, Line3D, Polyhedron3D, Plane3D, etc) and move, rotate the object in 3D space.

Tech Stack

- ✓ Python
- ✓ CI/CD (GitLab CI)
- ✓ Connect Cloud API
- ✓ PythonPart API (<https://pythonparts.allplan.com/2025/>)
- ✓ unittest library for writting unittest and integration test

Role

- Developer of team size 5.

Result

- The tool make it easier for structural enginner in modeling main rebar, stirrups, side rebar, caculate overlap, create section.
- Save time for them instead of doing manually before.
- Get data from a Cloud application and adapt it to main application.

REPOSITORY

<https://github.com/Inguyend-agai>

HOBBY

- Badminton
- Running
- Coffee

2. Peikko Toolbox

Description

- Automatically place the columshoes and bolts in colum. The placement of columshoes and bolts in column should be correct in 3D space.
- It quite similar with Automated Reinforcement but have different object.

Tech Stack

- ✓ Python
- ✓ Database by XML
- ✓ PythonPart Framework (Internal framework)

Role

- Developer of team size 2.

Result

- Create a database to save several product of client.
- Reduce the manual effort for structural engineer.
- Place the right position in 3D space.

3. Content Connector

Description

- Embed different content website into WPFWindow so engineer can use inside main application.
- Engineer can open website inside the main application and automatic download-> process the file -> get data -> create model -> import model to main application (This save time for engineer).

Tech Stack

- ✓ Python, C#(WPF, Webview2)
- ✓ CI/CD (GitLab CI)
- ✓ PythonPart Framework (Internal framework)

Role

- Developer of team size 3

Result

- Architects may save 80% of time of their content related tasks by Automation of the content import.
- Easily extensible, cloud-based connector tool, which enables Architects to access wide range of objects directly

Skill gained through projects

- Develop follow MVC pattern, apdapt best practice to sourcecode.
- Agile enviroment.
- Experience with CI process (connect with DevOps team).
- Review code process
- Collaborate with engineer team to get the requirements and feedback.
- Experience of working with client from Germany, Finland.

PERSONAL PROJECT

In progress

PESONAL FINANCIAL APPLICATION

Tech Stack

- Front end: ReactJS
- Back-end: Django, RESTful API, Celery, Redis
- Database: PostgreSQL, Django ORM

Feature

- Support user register and login with thier account
- Save user transaction of user in database. Display monthly transaction

PROJECT AT UNIVERSITY

12/2021 - 5/2022

1. License plate recognition using YOLOv4 and MobileNetV2

Tech Stack

- CNN network(YOLOv4 model + MobileNet V2 model)
- Image Processing (OpenCV library)
- Matplotlib: Create charts to help track training progress.
- Using NumPy for numerical computing and matrix operations.

Result

- Accuracy MobileNetV2 : 98.77%. Accuracy YOLOv4: 98.3%
- Can recognition the License plate from an static image. Total accuracy approximately 96%.