

Phong Duong Hong

Software Engineer

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in Phong Duong Hong

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Education

2017–2021 | VIETNAM NATIONAL UNIVERSITY HCMC - UNIVERSITY OF TECHNOLOGY.

BE, Honors Program in Civil Engineering. **GPA: 8.42/10.**

Thesis: Design Phu Dien Building (**Score: 9.35/10**).

Side Research: Construction Management Plug-in | Revit 2021 [↗](#).

Graduated as top 5 of all 2017 classes.

Skills

- Python, C#, JavaScript, TypeScript, HTML, CSS, VBA.
- ReactJS, NextJS, TailwindCSS, ViteJS, Ladle/Storybook, Linux/Ubuntu, Figma..
- OOP, .NET/.NET Framework, WPF, Git/Github, CI/CD.

Projects

11/2022 - 12/2022 | REACT WEATHER APPLICATION

Description: This project was aimed to create a simple weather app for practicing JavaScript, fetching API and ReactJS. The app provides some information about current weather and give forecast in the next 5 days.

Technology: Javascript, ReactJS, HTML, CSS, Vercel.

Github: [weather-app](#) [↗](#).

Deployment: [React Weather App](#) [↗](#).

10/2022 - 10/2022 | SPACEX CLONE WEBSITE

Description: HTML/CSS/JS SpaceX website clone project. It is not the entire website, but the homepage with the CSS animations, mobile menu and the JavaScript for interactive function.

Technology: HTML, CSS, Javascript.

Github: [spacex-clone](#) [↗](#).

Deployment: [SpaceX Clone](#) [↗](#).

03/2022 - 04/2022 | DOCUMENT PROCESS AUTOMATION (DOPA APPLICATION)

Description: An application use OCR model to detect text from scanned PDF files and converts into new file names.

Technology: Python, Paddle OCR, PySimpleGUI.

Github: [document-process-automation](#) [↗](#)

Demo: [Document Process Automation | DOPA Application](#) [↗](#)

03/2021 - 06/2021 | CONSTRUCTION MANAGEMENT REVIT PLUG-IN

Description: Developed a plug-in using C# implemented Revit API that connects Revit BIM model with MS Project to update construction schedule and concrete quantity in real-time.

Technology: C#, .NET Core, Revit API.

Demo: [Construction Management Plug-in | Revit 2021](#) [↗](#)

Projects

03/2023 - 04/2023	RAM CONCEPT TENDON MODELING AUTOMATION Description: Python application seamlessly integrates with the RAM Concept API to automate tendon modeling. Technology: Python, PySimpleGUI, RAM Concept API. Demo: Automating Tendon Modeling with Python and RAM Concept ↗
06/2020 - 11/2020	SHEAR WALL INTERACTIVE CURVE Description: Developed a program using VBA that allows the user to select a rectangular section with random reinforcement in ACAD then produce 2D interactive curves in Excel based on Vietnamese Standards. Technology: VBA, .NET Framework, AutoCAD API. Demo: Shear Wall Interactive Curve TCVN ↗

Experience

02/2024 - Present	CORE Studio Thornton Tomasetti · Application Developer <ul style="list-style-type: none">Led the migration of applications from .NET Framework to .NET 8, ensuring compatibility with Revit 2025.Developed and maintained WPF applications, created automation tools, and built custom plugins using C#.NET, ensuring seamless integration with existing systems.Collaborated with cross-functional teams to deliver high-quality software solutions, following Agile methodologies.
07/2023 - 02/2024	Nam Viet Store · Frontend Engineer Internship <ul style="list-style-type: none">Developed user interfaces using Next.js, React.js, Tailwind CSS, and Storybook, enhancing design consistency and performance.Transformed Figma designs into responsive, high-performance websites in collaboration with UX/UI designers.Ensured smooth integration with backend systems, maintaining cross-browser compatibility and mobile responsiveness.
10/2021 - 02/2024	Thornton Tomasetti · Structural Engineer <ul style="list-style-type: none">Performed structural design and analysis across various locations including Los Angeles, Greece, and Texas.Proficient in leveraging programming skills in Python, VBA, and C# to optimize workflows, solve complex problems, and develop tools for team efficiency.

Honors & Awards

12/2021	Loa Thanh Award - 3rd Prize A Vietnamese National Award held by Vietnam Ministry of Construction, Vietnam Ministry of Education, Vietnam Association of Construction and Vietnam Association of Architects for excellent graduation thesis of university students who major in Architecture, Civil Engineering and Urban Planning.
11/2020 - 06/2021	BKCONS and COFICO Funds Scholarship. Annual scholarship from BKCONS and COFICO for students with outstanding results.
2017-2021	HCMUT Academic Excellent Scholarship. Full semester scholarship for students with best academic performance.

Licenses & Certifications

03/2023	Advanced React ↗	Meta Coursera
11/2022	React Basics ↗	Meta Coursera
08/2022	Interactivity with JavaScript ↗	Coursera
08/2020	Python Data Structures ↗	Coursera

Language Proficiency

English	International English Language Testing System (IELTS) - Band Score: 7.0	Nov 2020
Vietnamese	Native	