HOANG VU

SOFTWARE DEVELOPER & NETWORK ENGINEER

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PROJECTS

2022-Now

Phantom Engine
- Under development
- A mobile (Android & iOS) 3D racing game
- Using Unity (Editor 2020.3.33f1) with C#

2022-Now

SoloKing
- Under development
- An open world tps adventure game
- Using Unity (Editor 2020.3.33f1) with C#

2022-Now

Killzone
- Under development
- Online battle royale multiplayer TPS game with futuristic theme
- Using Unreal Engine 5 with C++

2022-Now

VUChess
- Under development
- A online multiplayer chess web game
- Using **Redis, Nodejs, Expressjs and Socket.IO**

2022-2022

Hollow Knight
- An open world RPG game
- Player can move and use skills to attack enemies and enemy boss to clear the stage
- Built with **Unity (Editor 2020.3.33f1) and C#**

2022-2022

Jump Force
- A Helix jump type of game
- Built with **Unity (Editor 2020.3.22f1) and C#**
- Compatible **web, Android and iOS** build

2022-2022

Floopy Wings
- An infinite runner game like Flappy Bird
- Built with **Flutter and Dart**
- Compatible **web, Android and iOS** build

2022-2022

Self Portfolio
- **andrewvu270.github.io**
- Built with **JavaScript, HTML & CSS** with additional **bootstrap and jQuery**
- Using **Github Pages**

2022-2022

Stock Market Portfolio
- A full-stack web application developed with **Python, Django, SQLite, iexcloud stock API** and additional **bootstrap** for styling
- Include full CRUD operations, authentication/authorization login for admin role.
- Users can search market information for any stock in real time, update their portfolio by adding interested stocks to their watchlist or delete any stock from it

2022-2022

Flight API
- A simple **API** that handles flights **JSON** data (airline name, code, price, etc.)
- Built with **Python, Django and Rest Framework**

2022-2022

Discord bots
- Developed bots with **Python asynchronous programming and Discord API**: reaction bot, server moderation bot, poll bot, music bot, gaming bots (rock paper scissor, battleships)
- Updated: Migrated from **discord.py to nextcord**

2022-2022

Monsieur bonbon
- A full-stack web application developed with **C#, ASP.Net, .Net Core 3.0, SQL, Identity, Microsoft.EntityFrameWorkCore packages, additional bootstrap and jQuery**
- Include full CRUD operations, authentication/authorization login and register
- An ecommerce where user buy any types of candies, sweets, snacks, etc.

2022-2022

VURooms Hotel booking
- A full-stack web application developed with **MongoDb, Express.js, React.js and Node.js, stripe payment API and additional bootstrap and antd** for styling
- Include full CRUD operations, authentication/authorization login and register. There is a role system (Admin, user, guest) associated with different privileges.
- Features: booking, cancel bookings, add and edit rooms data in database, stripe payment gateway integration, user and admin dashboard, manage users, rooms, bookings from the admin panel

2022-2022

Wildwest virtual reality shooting game
- A western theme **VR** FPS game developed with **Unity (Editor 2020.3.22f1) and C#**
- Used XR Origin with action based controller
- Player can move, teleport and try to score as much as they can under an amount of time by trying to shoot object objectives precisely
- Compatible with **Oculus Quest 2**

2021-2021

Online contacts
- A full-stack web application developed with **Java Spring Framework, Tomcat server, Thymeleaf, Lombok and REST API**
- Include full CRUD operations to add or remove, edit and then store contacts to built in **H2 and/or SQL** database and display contacts info.
- Authentication/authorization login and register. There is a role system (Admin, user, guest) associated with different privileges.
- Used **Spring Security** to implement privileges and encrypt passwords

2021-2021

VUTravels Travel agency coordinator
- A **JavaFX** desktop application with interactive UI
- Users enter their flight and vacation information which will be stored from database and displayed on split pane for agencies to view, edit or remove from database.
- Includes drop down menu options as well as confirmative, warning and informative alert dialogs

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Java	C#	C++	PY
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●

JS	SQL	JSON	PHP
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●

TOOLS

Intellij, Visual Studio, Visual Studio Code, Android Studio, MongoDB, MySQL, Git BASH, Unity, Unreal Engine 5

MY SKILLS

FULL-STACK
- SPRING
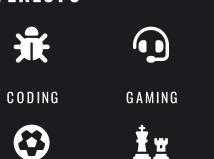- DJANGO
- ASP.NET CORE
- MERN STACK

API
- REST
- STRIPE PAYMENT
- IEX CLOUD STOCK

GAME
- UNITY & C# VR
- UNITY & C# MOBILE
- UNREAL ENGINE 5 & C++

BOTS
- DISCORD BOTS

UX/UI
- CSS & BOOTSTRAP
- JAVAFX

INTERESTS

CODING   GAMING   WORKOUT

SOCCER   CHESS   MANGA

EDUCATION

2020-2023

Sheridan College

Advanced Diploma, Software Development and Network Engineering

Grade: GPA 3.89/4.0

EXPERIENCES

2022-Now

AR/MR Application Developer, Sheridan CMI - CloudDX

Medical AR/MR Application with Hololens

Duties:
- Research technologies, frameworks, 3rd party components and techniques
- Implement and improve some parts of the project application
- Software development, software design, modeling and requirements analysis
- Test, debug and troubleshoot software applications developed for the project

2022-2022

Virtual Reality (VR) Application Developer, Sheridan CMI - VCIT

Ontario's first Virtual Clinical Immersion Training (VCIT) project from Sheridan CMI, Medtech Canada, Unity Health Toronto and Ryerson. This VR medical clinic is developed with C#, C++ and Unity. There are 2 builds: Oculus Quest 2 & KBM. Player will follow tasks such as setting up, using medical machines, etc. and helping the patient to complete each room (MRI, CT scan, Ultrasound, Radiology, Operating room)

Duties:
- Research technologies, frameworks, 3rd party components and techniques
- Implement and improve some parts of the project application
- Software development, software design, modeling and requirements analysis
- Test, debug and troubleshoot software applications developed for the project