DAI NGO TAN

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LANGUAGES

PYTHON 3		•			
JAVA 8	•	•	•	0	0
HTML 5	•	•	•	0	0
CSS 3	•	•	•	0	0
JAVASCRIPT	•	•	•	0	0
SQL	•	•	•	•	•
PHP	•	0	0	0	0
R	•	0	0	0	0

TECHNICAL SKILLS

OPERATING SYSTEMS: LINUX, WINDOWS

VERSION CONTROLS: GIT, SUBVERSION

DATABASES: SQLITE, MYSQL, POSTGRESQL, **MONGODB**

FRAMEWORKS: FLASK, FASTAPI, RABBITMQ, AGILE METHODOLOGY, DOMAIN-DRIVEN DESIGN, MICROSERVICES, OOP, RESTFUL API

TOOLS: DOCKER, WIRESHARK, JIRA, VIM, GITHUB, GITLAB, INTELLIJ IDEA, VSCODE

HACKATHONS

IMC 64 BIDS CODING CHALLENGE

- Implemented algorithms for common financial trading problems in Java
- Advanced to the final round, leaving around 1,200 participants behind
- Link: careers.imc.com/eu/en/64bidscoding-challenge

UNCOMMON HACKS 2021

- Jointly created a covid-19 themed, 2-D side-scrolling game in Python (Pygame)
- Link: devpost.com/software/koronakiller

PROJECT EXPERIENCE

October, 2021 -December, 2021

AUCTION WEBSITE

- Participated in building an auction website through Domain Driven Design, using Docker containers
- Developed users microservice with Flask & MySQL and messages microservice with RabbitMQ & MongoDB
- Assisted with docker network setup & frontend design

August, 2021 -September, 2021

NOTE SHARE

- Constructed a **client-server application** to transfer text files via TCP/IP sockets
- Performed binary search and merge sort for efficient searching and sorting of uploaded files
- Optimized application with Huffman algorithm to compress/decompress text files written in Java

April, 2021 -June. 2021

RESERVATION MANAGEMENT SYSTEM BACKEND

- Collaborated on a backend reservation system written in Python with FastAPI based on Agile principles
- Provided all the required backend functionalities for API endpoints and ensured correctness with pytest
- Coordinated with group representatives to ensure all other systems can request resources from each other

January, 2021 -February, 2021

BATTLESHIP GAME

- Built a solo player, 11x11 square sized, battleship game with 5 battleships written in Python
- Designed UI with Pygame and battleships with Sprites
- Implemented the 3-coloring strategy for the computer to find the player's battleships

EDUCATION

March, 2022

MASTER OF SCIENCE IN COMPUTER SCIENCE THE UNIVERSITY OF CHICAGO

RELEVANT COURSEWORKS: Algorithms (& Data Structures), Databases, Networks, Distributed Systems, Advanced Python Programming, Web Development, Applied Software Engineering, Topics in Software Engineering

August, 2019

BACHELOR OF SCIENCE IN ECONOMICS UNIVERSITY OF WASHINGTON

RELEVANT COURSEWORK: Database and Data Modelling