Minh Khoa Pham

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# Summary & Skills

**Back-end:**

* Nodejs: Expressjs, Moleculer
* Some programming languages I used: Javascript, PHP, C#, Python, Java, Lua, C++, C, MIPS
* I used to use a little few frameworks and libraries: .Net core, Spring boot, Pandas, NumPy, ***SSIS, SSAS***

**Front-end:**

* Javascript, HTML, CSS; Bootstrap, Figma; Vuejs, Jquery, PHP

**Database:**

* ***SQL: SQL Server, Oracle, MySQL, PostgreSQL; NoSQL: MongoDB, Redis, Cassandra, Neo4j***

**Other:**

* ***Git***, ***MVC Model***; ***UML: Class, Use case, Activity, Sequence; ERD;*** Tool: VS Code, Visual Studio, Eclipse, ***Enterprise Architect, Power BI,*** Postman, Enterprise Architect...; Reading English, Working team

**Link:**

* Facebook: <https://fb.com/khoaminhi> Github.io: <https://khoaminhi.github.io/my-html-css-cv>

# Experience

## UK Accident Statistics - BI

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| VNUHCM - University of Science | Members: 4 | Nov 2021 - Jan 2022 (3 months) |

Technologies: ***Data Warehouse***, SQL Server, Visual Studio, ***SSIS***, ***SSAS***, ***MS Power BI***...

Responsibilities:

* Flat -> Source -> NDS -> DDS -> Visualize
* Learning about analysing, filtering, cleaning, loading, transforming, extracting, designing andvisualizing data.

Link: <https://drive.google.com/drive/folders/1pT74M1IMfGNk8tI1p2xdgK-jWdjumCeR?usp=sharing>

## Information Technology Center - Information Systems Analysis and Design

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| VNUHCM - University of Science | Members: 4 | Semeter 6 |

Technologies: ***UML(***Business Use-Case, System Use-Case, Activity, Description Table, Class, Sequences, Three Tier Model***)***

Responsibilities:

* Give requirements then analyze and design system.
* Build Winform App: login, logout; showing score, fee; enrolling course activity; create the course, update the student mark.

Link: <https://drive.google.com/drive/folders/1UdHa6khGWfGfRhA1fN-IBPYUfpEzCtK9?usp=sharing>

## Hospital Management Project - Information Systems Security

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| VNUHCM - University of Science | Members: 3 | Semeter 6 |

Technologies: ***Oracle DB,*** Manage privileges on users, roles. ***VPD*** (Virtual Private Database), DES\_CBC\_PKCS5, trigger, store procedure, function.

Responsibilities:

* Modify database schema.
* Build a winform app; ***Authorization***, ***Authenticating***, ***Encrypting***,***decrypting*** on Oracle DB.

Link: <https://github.com/khoaminhi/SecurityInfoSysProject>

## Real Estate Management Project - Database Management System

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| VNUHCM - University of Science | Members: 5 | Semeter 5 |

Technologies: Winform, ***Transaction***, ***Deadlock***

Responsibilities:

* Find and demo the instances of each ***Phantom Read***, ***Dirty Read***, ***Unrepeatable Read***, ***Lost Update***

Link:

* Github: <https://github.com/HaoNguyen7/ManagerLand>
* Docx demo: <https://github.com/HaoNguyen7/ManagerLand/blob/master/BaoCaoMau_4.docx>

## Manage Store - Advance Database

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| VNUHCM - University of Science | Members: 3 | Semeter 5 |

Technologies: Winform; ***PowerDesign***, ***UML***; ***Index***, ***Pagination*** on database; Excution plan.

Responsibilities:

* Analyze and design database from ***Conceptual*** to ***Logical*** to ***Physical***.
* Estimate and optimize to improve the performance on database. After that, use indexing, paginating.
* How to use the index to get high benefit.

## VNVC.VN Project

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| VNUHCM - University of Science | Members: 4 | May 2022 - Jun 2022 (2 months) |

Technologies: Nodejs(Expressjs, Passportjs...), Redis, MongoDB

Responsibilities:

* Login and log out with ***Passportjs***. ***Use Redis to store the user information session***.
* Manage region-province to get the corresponding region which is contained in ***Redis*** that provide data faster than.
* Design a good MongoDB and Redis schema structure.

Link: <https://github.com/KhoaMinHi/mdm-vnvc.vn-project>

## Online shopping project

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| VNUHCM - University of Science | Members: 3 | May 2022 - Jun 2022 (2 months) |

Technologies: Nodejs(***moleculer-microservice***), mysql, php, rabbitmq, javascript, bootstrap

Responsibilities:

* Use Moleculer framework to build ***API gateway*** and other services; integrate Rabbitmq (Message Broker) into; Load balancing, Circuit Breaker. Implementation of one-way notification (***asynchronous***).
* Get API to login, logout which uses the ***session in PHP***; ***register by email***
* Create a front-end app server by PHP. Handle interface with bootstrap

Link: <https://github.com/KhoaMinHi/moleculer-distributed-system-udpt-project>

## Book Store Project

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| VNUHCM - University of Science | Members: 3 | Dec 2021 - Jan 2022 (2 months) |

Technologies**:** **Nodejs**(Expressjs...), PostgreSQL, Heroku

Responsibilities**:**

* Handle Cart: generate session, modify cart's product using Jquery ajax. Add a comment by Ajax. ***Register by email***.

Link:

* Demo: <https://drive.google.com/file/d/1R8Fci0eCh3xYodQjHPqUxevWDCD0zvp8/view>
* Deploy: <https://webbansachclient2022.herokuapp.com/>
* Github: <https://github.com/PTUD-WEB/client>

## Hiring go to supermarket project

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| VNUHCM - University of Science | Members: 4 | Dec 2021 - Jan 2022 (2 months) |

Technologies: C# (.net core), Java(spring boot), Vuejs, ***Bing Map API***

Responsibilities:

* Create **API** using .net core, spring boot. Get response data and render it to the browser by ***Vuejs***.
* Use java to fetch Bing Map API to calculate the minimum of the distances between the store and some shippers.

Link: <https://github.com/KhoaMinHi/InfoSysDevProject_Semeter7_API_C-_Java>

## Others projects

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| VNUHCM - University of Science | Jan 2021 - Jun 2022 (1 year 6 months) |

* **Recommendation System**: ***Item-based CF***, ***Matrix Factorization***. ***Python***, Pandas, Numpy, GG Colab...
* Computer Architecture & Assembly Language: BigInt (C), Quick Sort (MIPS 32

# Education

## VNUHCM - University of Science



Bachelor's degree, Information Technology Aug 2018 - Jul 2022

# Activites & Hobbies

**Activities and societies:** Dem am (Warm night activity)…

**Hobbies:** Football…