Nguyen Thanh Hai (Hayden) Huynh

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Education

THE UNIVERSITY OF TEXAS AT ARLINGTON   Arlington, Texas, The U.S.A
Master of Software Engineering   **2022 - Current**

THE UNIVERSITY OF QUEENSLAND   Brisbane, Queensland, Australia
Bachelor of Engineering, Software Engineering (Graduated with Class I Honours)   **2020 – 2022**
Cumulated GPA: 6.250/7.0
Relevant Coursework: Basic & Advanced Algorithms and Data Structures, Human – Computer Interface, Artificial Intelligence, The Software Process, Cloud Computing, Software Architecture, Compilers & Interpreters

HO CHI MINH UNIVERSITY OF TECHNOLOGY   Ho Chi Minh, Vietnam
Faculty of Computer Science and Engineering, Computer Science Major   **2017 – 2019**

LE HONG PHONG HIGH SCHOOL FOR THE GIFTED   Ho Chi Minh, Vietnam
Three-year title of Good Student, English Major   **2014 – 2017**

Skills & Interests

Technical Skills	
Front-end Skills	**Back-end Skills**
HTML & CSS Tailwind CSS React.js | Redux State Management React Native Flutter	Node.js | Express MongoDB NoSQL Database System Docker | Docker Compose | Docker Swarm RESTful APIs
Programming Languages	
JavaScript & TypeScript Python Dart Java C | C++	

Soft Skills
Both a good team leader and team player
Hard-working
Highly Responsible
Active Learner/Problem Solver
Plan Making & Time Management
Effective Communicator
Willing to take on any challenges

Language:
- Proficiency in English and Vietnamese
- IELTS Overall Band of 8.0
- GRE Test Scores:
  - Verbal Reasoning: 151/170
  - Quantitative Reasoning: 159/170
  - Analytical Writing: 4.0/6.0

Interests:
- New Software/Hardware Technologies
- Working in a team to achieve great results
- Developing new skills and experiences
- Music & Singing
- Travelling

Projects

UNIVERSITY RESEARCH THESIS   February 2021 – November 2021
Localization of Lifelogging Data for the Detection of Loneliness
- Client Side: A mobile application developed with the Flutter framework and Dart programming language to collect users' responses to a questionnaire as well as their locations for study purposes
- Server Side: A server application developed with Node.js and the Express framework to facilitate the necessary RESTful APIs for the mobile clients to use. The server is connected with a MongoDB instance, which runs on the same host machine, to store all the collected data. The server also serves multiple pages implemented with EJS and CSS to let administrators view and manipulate the stored data.
- Mobile application Repository: https://github.com/hayden-huynh/together-mobile-app
- Server application Repository: https://github.com/hayden-huynh/together-server-app

PERSONAL FULL-STACK WEB APPLICATION   July 2021 – November 2021
Progress Minder
- A full-stack web application I developed to help students visualize and track all their on-going assignments so that procrastination can be mitigated.
- The front-end was developed with React.js and React Hooks for state management. The back-end was developed with Express, Node.js, and MongoDB as database solution. Using Docker, Docker Compose, and Docker Swarm, the application was deployed on a small cluster of virtual machines on Google Cloud Platform for both scalability and reliability.
- Project Repository: https://github.com/hayden-huynh/INFS3208-Individual-Project

SERVER APPLICATION FOR A MOBILE PROJECT   July 2021 – November 2021
Pet Home
- My team and I worked on this project consisting of a mobile application for client side and a back-end server to serve RESTful APIs. The mobile application was developed using React Native, and its back-end server was developed using Node.js and Express. I worked mainly as the lead back-end developer. Alternatively, I also contributed to the mobile application and its state management written in Redux.
- As the lead back-end developer, I made all the critical development decisions, implemented all the significant APIs, and eventually deployed the server. During the implementation process, I have utilized JSON Web Tokens for user authentication, MongoDB for text data storage, Amazon S3 for large image storage, and Google Maps APIs for Reverse Geocoding.
- Project Repository: https://github.com/hayden-huynh/DECO3801-Pet-Home

Work Experience

FPT SOFTWARE   Ho Chi Minh, Vietnam
Intern Developer/Business Analyst   December 2020 – June 2021

- For the first three months of the contract, I worked full-time as a developer. My primary assignment was to research methods to perform HTTP communications between machines in their pre-operating-system (BIOS) state. Despite not being successful via the HTTP protocol, I managed to develop a C program that enabled file transfers.
- For the later three months of the contract, I worked part-time as a business analyst due to my efficiency in English communications. Working in this role, I have experienced many meetings with the customers for requirement elicitation, and afterwards, I helped the customers visualize the end product using prototype interfaces designed in Adobe XD.