

Hongyu He



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Career Objectives

As a recent graduate with a Bachelor of Computer Science and Technology degree (with Distinction WAM), I am seeking the position as a Graduate Web Developer. I am enthusiastic about web development. By taking online courses, I taught myself the technologies such as NodeJS (Express), React, Django, HTML, CSS, Javascript, Bootstrap, JQuery, etc. By utilizing these technologies, I have built my portfolio website and deployed it online. I have also built a todo list application with authentication functionality along with other web applications along the taking the courses. Back in University, I had taken a data and information management course where I gain a deeper understanding of the managing data using database and specifically learned PostgreSQL. Ever open to new opportunities to learn, I aim to continually update my skills. I believe I am a good fit for this role and this position will help me kick start my career and help me grow to be a software developer with practical experience.

Professional Development

After graduation, I have been teaching myself web development by taking courses on Udemy and Codecademy and watching tutorials on YouTube.

- After finished the Django3 web development course on Udemy, I build two websites using the Django3 framework. One is a personal portfolio website deployed on PythonAnywhere. The other one is a todo list website with authentication which allows users to log in, log out and sign up.
- I have done a complete 2020 web development boot camp on Udemy which is a 54 hours long course. After completing it, I have a grasp of both front end and back end technology. Front end: React, HTML, CSS, Bootstrap, JQuery, JavaScript. Back end: NodeJS, Express, EJS and MongoDB. Moreover, I have gained the ability to write RESTful API. During this course, I had many opportunities to get some hands-on practices by writing various websites and completing lots of challenges.

Education

Bachelor of Computer Science and Technology
The University of Sydney

Mar 2017 – Dec 2019

Essential Subjects:

- Data structure (Advanced Stream)
- Algorithm Design (Advanced Stream)
- Introduction to AI (Advanced Stream)
- Data and information management (PostgreSQL)
- Agile software development

Professional Experience

Souffle Project, The University of Sydney
C++ Interface Contributor

Aug 2019 – Nov 2019

- Fix a critical bug that affects the performance of the project
- Write code to integrate different modules of the project and generate tests to check critical functions of the program
- Generate formal documentation for the C++ interface using Doxygen

Achievements: During the project, I used Bitbucket and Git for version control and to collaborate with team members. I taught myself C++, which I had no exposure to before, and wrote code to fix a bug and generate tests. As a result, the program performance is increased with the invalid user operations banned and I also notified the team with more bugs I found after running the tests so that they can further improve the stability of the program.

Big Mobile, Sydney, Australia

Dec 2018 – Jan 2019

Tech Specialist

- Design databases drawing ER diagrams (which is further improved by schema normalization), workflow diagrams etc for the company's new project
- Took meeting minutes, monitored the tech team's load and deadlines via Trello, facilitate interviews and set up the weekly meetings for the development team

Achievement: I applied the knowledge I learnt from the data and information management course I learnt to design the database for the new project. I also monitored the development progress via Trello. In the end, the database we able to be setup one week earlier than planned.

Core Competencies

- Technical skills
 - Web Development: NodeJS, Express, React, Django, HTML, CSS, JavaScript, Bootstrap. JQuery, EJS, MongoDB
 - Programming languages: JavaScript, Python, Java, C, C++
 - Knowledge of operating systems, security, artificial intelligence
- Soft skills
 - Fast learner: When I was teaching myself web development by taking courses on Udemy, I used the active recall and spaced repetition techniques to help me understand new concepts faster and retain them longer. As a result, I was able to complete and get a grasp of these online courses which contain over 70 hours of content within a month which could take average students to complete in two months.

Extra Curriculum Activities

- Performed singing in the Anniversary Show in the Australian Chinese consulate
- Performed at and arranged weekly events at Pop music performance society
- Taylor college singing competition – achieved first place

Referees

Available on request