

Hongyu He

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Career Objective

As a recent graduate with a Bachelor of Computer Science and Technology degree, I am seeking the position as a graduate software developer to work in an innovative technology company. I have university experience of java development from a programming unit I took where I achieved 94 marks. I also have university experience of relational database development using PostgreSQL from a data and information management unit where I got 93 marks. The capstone project I had done gave me the opportunity to work in an agile team and the internship experience gave me the opportunity to assist the company to build relational database and enhanced my communication skills. By taking online courses on Codecademy, I have gained some basic knowledge of web services and REST. I thrive in an environment that requires logical thinking and problem-solving. 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.

Education

Bachelor of Computer Science and Technology

Mar 2018 - Nov 2019

THE UNIVERSITY OF SYDNEY, Sydney NSW

Essential subjects:

- Introduction to programming (taught in java)
- Data and information management (PostgreSQL)
- Agile software development
- Data structure (Advanced Stream)
- Algorithm Design (Advanced Stream)
- Introduction to AI (Advanced Stream)
- Operating system and network platforms
- Big data and data diversity

Bachelor of Mechatronics Engineering

July 2015 - Nov 2017

THE UNIVERSITY OF SYDNEY, Sydney NSW

Professional Experience

Souffle project, The University of Sydney, Sydney, Australia

Aug 2019 – Nov 2019

C++ interface contributor

- 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
 - Adopt agile software methodology to expedite internal processes such as accepting pull requests
- Achievement: I self-learned C++ myself, which I had no exposure to before. Nevertheless, I satisfied all the client's requirements. For this project, I used Bitbucket and GIT for version control and to collaborate with team members. The pull requests I created were all accepted. The bug was perfectly fixed, and I even identified new bugs and reported them to the clients. All the documentation is published on the official website of the project.

Tech specialist

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

Achievement: With my help, the database was set up properly in the end. The team was able to get more user stories done because I monitored the team's load and deadlines. The documents were helpful for the team members to look up for essential information. Through this experience, I increased my written and verbal communication skills.

Tutoring

- Tutor beginner programming courses to small and large groups of university students
- Design curriculum and lesson plans for specific classes

Achievement: Students were able to finish their university assignments on their own and pass final exams after they had taken my classes. Through this experience, I had also enhanced my public speaking skills and the ability to make abstract concepts simple so that it is easier to be understood.

Core Competencies

- Technical skills:
 - University experience of Java development using visual studio
 - Both university and commercial experience of relational database development using PostgreSQL
 - Self-learned web development knowledge: NodeJS, HTML, CSS, JavaScript, REST
 - Programming languages: Java, C, Python, C++
 - Problem-solving skills. Developed through solving complex coding problems, doing assignments and projects
- Soft skills:
 - Communication skills. Developed through team projects, presentation, writing report and tutoring
 - Time management: using the GTD methodology to manage my time

Extra curriculum activities

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| • Performed singing in the Anniversary Show in the Australian Chinese Consulate | Oct 2019 |
| • Performed at and arranged weekly events at Pop music performance society | Feb 2019 – Nov 2019 |
| • Open mic held by Everyone Can Sing | Dec 2017 – Jul 2019 |
| • “Shui li Fang” Chinese singing competition (Sydney) - achieving third place | 2016 |
| • Taylor college singing competition - achieved first place | 2015 |

Hobbies and interests

- Singing, guitar, tennis, swimming

Referees

Available on request