

Jiawei(Peter) Cai

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2A Computer Science - Student: 20552816

Summary of Qualification

- Proficient in Java, C/C++, Scheme, C, .Net, ASP.NET, HTML/CSS/JavaScript/Jquery, SQL
- Solid fundamental knowledge in Python, Bash Script, MIPS and Android App development
- Operating Systems: Windows, Linux/Unix
- Proficient with Vim and Git; working experience with MS SQL Server and Visual Studio
- Experienced with other tools such as Eclipse, Android Studio, Code Blocks, Dr.Racket, Unity 5
- Strong academic performance with GPA 3.6/4.0
- Hardworking and able to be quickly adapted to new concepts
- Highly motivated individual and worked effectively and accurately under pressure

Relevant Projects

Patrol Robot Sept. 2013–Dec. 2013

- Built and programmed Artificial Intelligence robots using the Lego Mind-storm NXT kit
- Analyzed the necessary reactions the Patrol Robot needs to take under different conditions
- Adjust the barrier detection function to improve its mobility

Java 2D Game Dec. 2014

- Implemented the basic functionality and graphic effect of the mobile app Flappy Bird by Java(JFrame)
- Familiar with the general GUI design in Java
- Understood and able to make simple animation

Japanese Mahjong Score Calculator April. 2015–June. 2015

- Developed an android app to calculate, record the scores of four players and determine the winner
- Developed cooperation skills through idea sharing, progress updating and conflict resolving with co-workers
- Familiar with the android building process

Monopoly Game July. 2015–August. 2015

- Implemented Monopoly game with basic graphic display
- Applied C++ MVC and Observer software design patterns
- Using git to cooperate with team member

Work Experience

Software Developer - CI - Technologies Sept. 2015–Dec. 2015

- Bug fixed, code re-factored and upgraded existing web-application with new features on both front-end and back-end
- Reimplemented several core components of a new feature to achieve the version control effect
- Developed new user interfaces for new features of existing product
- Developed and maintained new database querying application
- Communicated with potential and current customers at a conference to determine requirements and needs

Education

University of Waterloo

Candidate for Bachelor of Computer Science

Sept. 2014–present

Awards

Euclid Math Competition-Top 1%

Placed 100th among over 13000 contestants

University of Waterloo, April. 2014

Hypatia Math Competition-Top 1%

Placed 20th among over 15000 contestants

University of Waterloo, Feb. 2013