

# MINGYE WANG

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## EDUCATION

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### University of Toronto

Honours Bachelor of Science

2012 – 2016

- Computer Science Specialist
- Cumulative GPA 3.06 out of 4.0 [?](#)

Courses taken: Software Design, soft tools and system programming, data structure and analysis, Algorithm Design and Analysis, Introduce to Database, Programming on the Web, Operating System, Artificial Intelligence, Machine Learning, Natural Language processing.

## SKILLS

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### Technical

- Programming: C/C++, Java, JDBC, Python, Shell, Verilog, MySQL, XQuery, R, MatLab, JavaScript, HTML, PHP, JQuery, RESTful API and CSS
- Application: Android Studio, Microsoft Office, Wing, Eclipse, Django, GitHub
- System: Windows, Mac OS, Linux/Unix
- Other Technical Skills: Android App Developing, SVN, Bash, Design Patterns, Data-processing logic, TCP/IP, networking architecture, Client/Server, Design patterns [?](#)

### Interpersonal

- Good problem solving skills developed through school assignments and projects
- Gain great time management skills through the four years' study in U of T
- Strong Ability to adapt and deal with new techniques

## PROJECTS

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### Team Leader, Android application development

- An app for the doctors and nurses to record and review patients' information
- Using CRC cards to identified the functions, variables and the module for this app

- Implement the application with Eclipse and Android SDK
- Finish the backend such that all the data can be saved and uploaded from a text file and help teammates finish some of the frontend

#### **Implementer**, Sudoku Solver(Python)

- Solving a 9 \* 9 Sudoku a remarkable speed
- Using GAC algorithm to solve the interesting small game in real life, such as Sudoku, Puzzle and so on.

#### **Team Member**, website for the use of Synergy Space

- Implement a fully-functional coworking space rental website including front-end (HTML5, CSS3, Bootstrap framework, JavaScript, JQuery) and backend (PHP, Yii Framework, MySQL) wherein users can list and rent shared working environments, as well as discover new collaboration opportunities.

#### **Implementer**, Ext2 file system

- Using C to implement the file system on Linux system
- Solid knowledge of the principles of operating System.
- The file system has following function: remove file, copy file, make directory, link and create file.

#### **Implementer**, 3D tank war

- Use OpenGL and C++ to create several 3D tanks
- Design several key frames, make the tanks move automatically, then combine those key frames, make it as a 3 minutes' short movie.

#### **Implementer**, Machine Learning, Face recognition (Python & MatLab).

- Given 10,000 test images, and recognize the expression of people in the image
- Use several classifiers (k-nn, logistic, support vector machine, Neural network) to predict the data gained from the images. Choosing the expression for the image with the highest probability.
- The accuracy reach 80%.

#### **Implementer**, Web Interface(Django)

- Use Django framework and python to implement. Implement the program with OO Design.
- Design and build the database.
- Extract data from .csv file uploaded by the user, and store data in the relational database. Output a table with required information.

#### **Other**

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Personal Website: <https://github.com/L21>