

# YU GENG WANG (Simon)



Scarborough, Ontario

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leetcode.com/lockermang | mtwangyugeng.github.io/personalpage/

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## Known Technologies:

Software Development: Java, Javascript, Python, C, React.js, CSS, HTML, Android Studio, C#, MySQL, XHTML, Eclipse, VS Code, REST API

Others: LaTeX, PDF, Word, Excel, PowerPoint

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## Education:

University of Toronto (U of T) - Honours Bachelor of Science (BS)

Major in Computer Science and Major in Mathematics

*September 2014 - November 2019*

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## Highlights of Skills:

- Familiar with web developing tools such as Javascript, React, CSS and HTML:
  - Try this web app: <https://mtwangyugeng.github.io/hbeatbox/>
    - Source code: <https://github.com/mtwangyugeng/hbeatbox/tree/master>.
  - My personal page:
    - <https://mtwangyugeng.github.io/personalpage/>
    - Source code: <https://github.com/mtwangyugeng/personalpage>
- I am familiar with Node.js.
- I have experience in developing software that uses MySQL database servers.
- I have hands-on experience with object-oriented and functional programming in python, Java, C, and Haskell
- I demonstrated abilities in recognizing and applying design patterns including Factory, Adapter, Decorator, Iterator, etc; and coding practices such as dependency injection.
- I have knowledge and application in computer algorithms. For Example, hashing, greedy, divide and conquer, graphs searching and traversal, dynamic-programming, and linear programming.
- I have the abilities to draw out convincing proofs for mathematical and computer science problems
- I have experiences in group project competitions, with simulations of development cycles
- I have hands-on experience in navigates file systems, compile codes, perform system operations, and manage projects (git) in Ubuntu(Linux) and WindowsTerminal.
- I learned and reproduced the mechanics of operating systems in programming language C such as synchronization, memory management, process management, file system, and pipe.
- I have knowledge in business analysis, management, and accounting.
- I have Excellent verbal and writing skills in English.

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- I always contribute greatly to the written reports in group projects. Not to mention I have a 4.0 GPA in the writing-heavy *Political Science* class at U of T.
  - I am a humorous presenter.
  - I speak fluent standardized Mandarin and I can read and write in both simplified and traditional Chinese.
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## Experiences:

**Developed an airline booking app with Java and Android Studio in a group of three. The app features calculation of the optimal flight path, booking flights. And the corresponding admin operations. (2016)**

- Developed the backend algorithms in finding the optimal flight path
- Provided solutions for the rest of my group over linking the Java backend to the Android studio front end

**Led a group of four to design a new interface for Toad for Oracle, including an interactive prototype and software tutorial. (2018)**

- Interviewed two Database Management software users for our data gathering
- Rolled out details for our GUI's requirements
- Data gathering (interviews and artifacts) from potential clients
- Evaluated our interface on the traversing times and user feedbacks

**Participated in the course project contest with a group of five; Using the agile development cycle, we developed an application for statistics students and instructors to manage their work. (2017)**

- Made up user stories and tasks based on the client's needs
- Used spreadsheets to manage tasks weekly
- Developed the front end of the app
- Linked the MySQL database APIs to the front end
- Presented our prototype to the instructor

**Participated in group projects simulating open-source contribution processes for the popular python library matplotlib (2019):**

- Took on the position of scrum master for two working weeks
- Followed agile development process and meeting minutes

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- Demonstrated understanding of the software structure and design patterns of matplotlib, and its open-source contribution processes
  - Provided detailed reports, manual, and convincing acceptance tests and unit tests for the issues we have chosen to contribute.