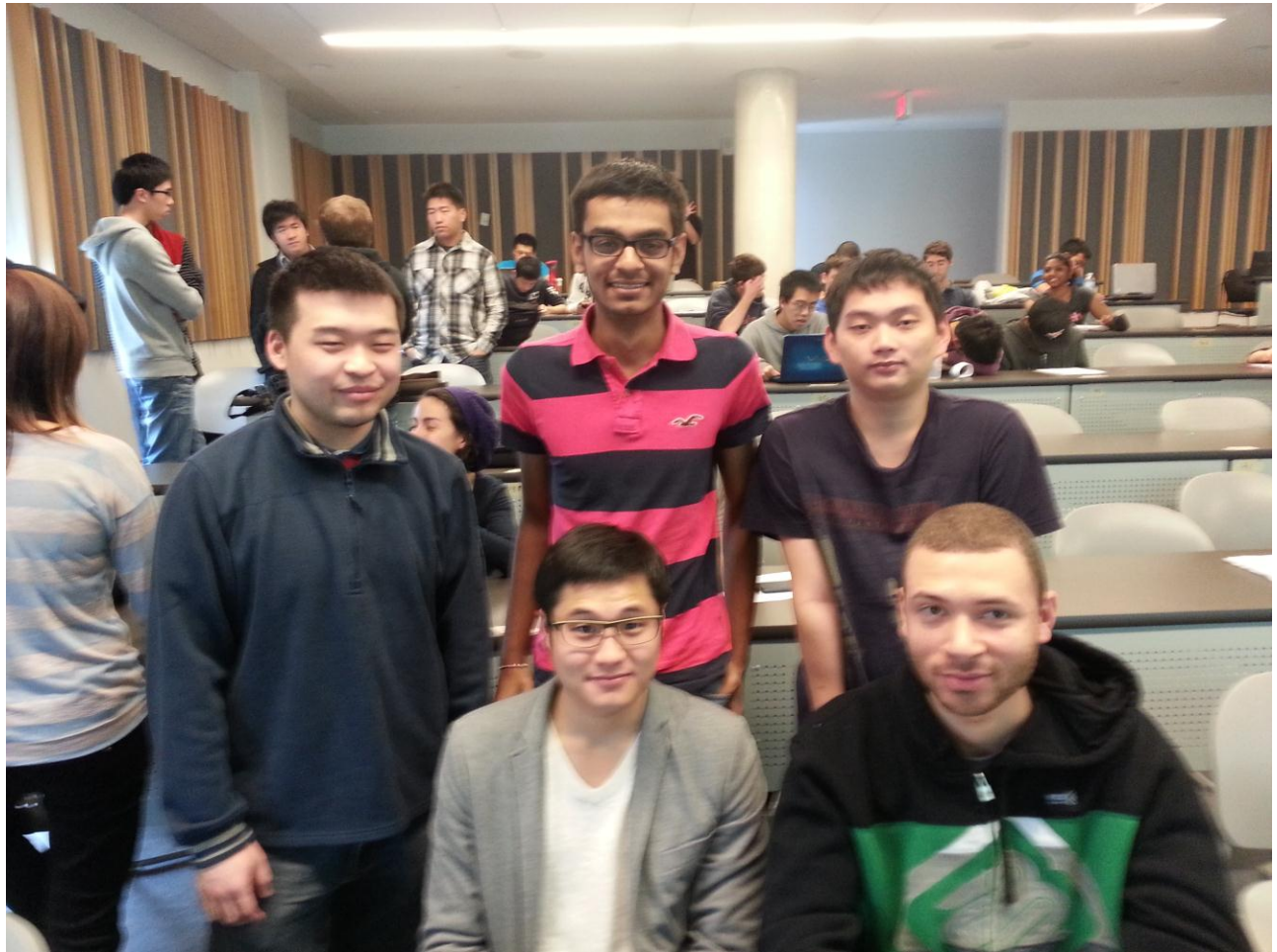# BO FANG'S ANGELS



Richard Luo, Jay Patel, Bo Fang, Charlie Choi, Gregory Kelsie
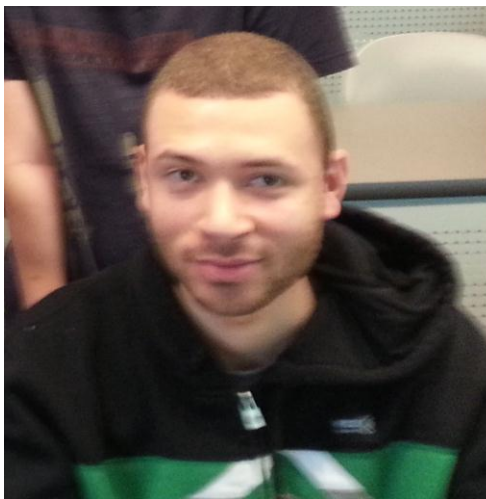
# Team Member Biographies

## Charlie Choi

Charlie Choi was born in to a loving family in South Korea in 1989. Legend has it that his birth was celebrated by meteor showers and roars of all animals around the globe. He was quickly recognized as a child prodigy due to his incredible breathing ability. He has yet to stop breathing to this current date. At the age of 9 Charlie was introduced to a personal computer. Using the MS-DOS environment he quickly fell in love with the machine and spent countless hours playing Wolfenstein, a first person shooter game. Personal computers gained popularity and became powerful extremely quickly. Charlie's interest in the machine grew and he started to ponder the working behind this magnificent beast. At the age of 19, Charlie entered the fine institution of University of Toronto Scarborough Campus. He began studying economics with the ultimate goal of solving world hunger by equal global wealth distribution. On his free time, he enrolled in a programming course where he realized his life's destiny, to become the next Linus Torvalds. Currently, he devotes his undivided attention in completing an assignment for CSCC01. He is confident that his application will be chosen to be implemented in the department.

## Gregory Kelsie

Gregory Kelsie is an undergraduate student at the University of Toronto. Gregory is enrolled in a specialist program specializing in Management and Information Technology. Gregory first started programming in the tenth grade where he was taught Turing. Immediately captivated by the endless possibilities that can be created through programming, Gregory continued to take computer science courses throughout high school. In his eleven and twelfth grade, Gregory started to learn Java as well as HTML, CSS, and JavaScript. Outside of school Gregory started to develop websites in his spare time and teach himself more Java. In university Gregory started programming in Python and C in addition to web languages such as PHP and MySQL. Outside of programming, Gregory enjoys playing sports and video games as well as and hanging out with friends. His goal in school is to continue to broaden his knowledge in computer science and create useful applications to add to his résumé.

## Jay Patel



This is Jay Patel. He is currently an undergraduate student at the University of Toronto. He is in his third year, studying in the field of computer science. He was born in India and he immigrated to Canada, when he was 8 years old. His passion in to programming came from grade 10, when he toke his first computer science course. It gave him a feeling of creating something on his own and that excited him. Ever since then he has been programming in school and as well as for fun. Outside of studies, he works at the University of Toronto as a IT student support. He likes this job, because of all the new people he meets and the nature of the job. The job, unlike most others isn't repetitive, it's always different and he likes that challenge. Occasionally Jay also play competitive sports (mostly Volleyball and Cricket).

## Richard Luo



Luo Jia Lun also known as Richard Luo was born on January 3$^{rd}$ 1993 in China LanZhou, he came to Canada when he was 11. Richard Luo is now a student of University of Toronto Scarborough, he is currently in his 3$^{rd}$ year specializing in computer science. He got into computer science because of both his parents used to be in the fields of computing. He would like to get into video game design when he graduates, his biggest dream is to create a video game that everyone will love. Richard Luo's hobbies include video game and badminton, when he has free time he likes to sit alone quietly and daydream.

# Bo Fang

Bo Liang Fang also known as Jason was born on January 21st, 1992 in China. He immigrated to Canada when he was 10, and he has lived there for 11 years now.  After he graduated high school he continued his study at the University of Toronto, studying in the computer science specialist program. He got into Computer Science due to his interest in computers and how they work. He is especially interested in web design and video games programming. His spent most of his free time playing video games on his computer and browsing on reddit. He likes to stay on schedule, and get work done on time. He is a very organized and pays attention to details. Currently in his third year at UTSC, he occupies his time with the many C level courses that he is taking as well as freeing time for his part time job.

# Personas

Bob Fang



Bob Fang is a 40 year old teaching assistant for MATA31 and MATA33. He has been involved in these courses for the past 5 years. He has been diagnosed with obsessive compulsive disorder and considers himself as a perfectionist. Consequently, he becomes very irritated when things are unorganized. Amongst his friends, he is called a control freak and extremely hard to please. During his free time, he likes to listen to classical music as he cleans his house and water his plants.

As a perfectionist, he likes to prepare meticulously for all of his tutorials. His typical tutorial preparation consists of going over the list of students, visiting the instructor for a lesson plan for the upcoming tutorial, and adding his personal additional notes to the lesson plan. This whole process usually takes a little over an hour.

He admits that his method of preparation is very time consuming, however, he claims it is the perfect method and is reluctant on deviating from it. He is slowly adapting to advances in technology and proudly claims he has just recently devoted 100 hours to completely master the Android ecosystem.

Mary Smith



Mary is a 29 year old professor at University of Toronto Scarborough Campus. Mary has been a professor for 2 years and is still nervous about her teaching style. She is always looking for ways to improve the experience for her students even if it means introducing a new platform. She is extremely active in multiple social media platforms and considers herself to be very up to date with current technologies.

She is very easy going and at times lacks attention to detail. In her free time, she likes to browse the web and spend lot of her time on social media platforms. She also enjoys going out for movies and reading the latest gossip magazine.

She believes that tutorials are one of the most effective methods in enriching the learning experience. She considers teaching assistants as an invaluable resource and is willing to do anything she can to make their jobs easier. Despite being technologically savvy, she lacks knowledge in the Android operating system and falls under the category of "Apple Fan Girl".

# User Stories

As a teaching assistant, I want to have an application that issues reminders of upcoming tutorials that I have to teach so that I won't forget my tutorials.

As Bob, a teaching assistant, I want to have a system that displays a lesson plan, so that I can look at the plan on the go.

As Bob, a teaching assistant, I want to be able to see a list of the students registered in my tutorial, so that I have an easy way to distribute marks.

As Bob, a teaching assistant, I want to be able to enter grades for the students enrolled in my tutorial section, so that the grades are recorded for the professor.

As Bob, a teaching assistant, I want to have a way to email grade files to the instructor automatically after I input the grades, so that I'll never forget.

As Mary, a professor, I want to be able to add teaching assistants to the application according to the courses that they teach, so that the they have access to the functionality of the application.

As Mary, a professor, I want to be able to provide lesson plans for the teaching assistants, so that they have tutorial instructions with them at all times.

As Mary, a professor, I want the teaching assistants to only input marks once, so that the they are unable to remark without my consent.

As Mary, a professor, I want to be able to alter marks, so that errors within the grading are fixed accordingly.

As Mary, a professor, I want to be able to register on the system, so that I can have access to the application.

As Mary, a professor, I want to be able to add marking scheme to my tutorial section, so that the teaching assistants know how to mark the assignments.

As Mary, a professor, I want a way to record the system students information, so that I can access it throughout the semester.

# System Metaphors

 Our system will be a calendar to the users issuing reminders for events.

Our system provides an attendance sheet for each tutorial for the users to quickly browse the list of students enrolled.

The system is essentially an excel spreadsheet allowing teaching assistants to enter grades to the corresponding gradable content.

Our system will be the Canada Post for teaching assistants. It will deliver the grades to the instructor.

Our system allows the instructor to give out hall passes to the teaching assistants which grants them access to the system.

Our system allows the instructor to provide a sticky note which can take the form of a marking scheme or a lesson plan to a bulletin board that will display it for the teaching assistants.

The teaching assistants give the students a mark in pen and the only way it can be removed or altered is by the instructor's white-out.

Our system will allow instructors to gain permits such that they have access to the app.

Our system has a filing cabinet that keeps records of the student as work.

Aggregately our system represents a personal digital assistant. This provides a comfortable experience for teaching assistants and instructors in managing their tutorials.

# Release Plan

(Task Prioritization, Estimates, User Story Breakdowns)

***Legend***
**1 – Most Priority**
**2**
**3**
**4 – Least Priority**

**(4)** As Bob (teaching assistant), I want to have an application that issues reminders of upcoming tutorials that I have to teach so that I won't forget my tutorials. (**2 weeks**)

- Implement a way to create an android notification

**(3)** As Bill, (teaching assistant), I want to have a system that displays a lesson plan, so that I can look at the plan on the go. (**1 week**)

- Create a button that will access the lesson plan

- Create a way to store a lesson plan

**(2)** As Jim, (teaching assistant), I want to be able to see a list of the students registered in my tutorial, so that I have an easy way to distribute marks.
(**1 week**)

- Create a button that will access the student list

- Create a way to store the student list

**(2)** As Jan, (teaching assistant), I want to be able to enter grades for the students enrolled in my tutorial section, so that the grades are recorded for the professor. (**1 week**)

- Create an editable table

- Store the table

**(2)** As Jay, (teaching assistant), I want to have a way to email grade files to the instructor automatically after I input the grades, so that I'll never forget.
(**1.5 weeks**)

- Store instructor's email based on course

- Send email to the instructor

**(2)** As Mary (professor), I want to be able to add teaching assistants to the application according to the courses that they teach, so that they have access to the functionality of the application. (**2.5 weeks**)

    - Add teaching assistants to the database of users

**(3)** As Mary (professor), I want to be able to provide lesson plans for the teaching assistants, so that they have tutorial instructions with them at all times. (**2 weeks**)

    - Implement a way to create and save a text file.

    - Implement a way to share the text file to specific users

**(4)** As Mary (professor), I want the teaching assistants to only input marks once, so that they are unable to remark without my consent.
(**1 week**)

    - Implement a way to create a lock with a password after one submission of grades.

    - Implement a way to store the password

**(3)** As Mary (professor), I want to be able to alter marks, so that errors within the grading are fixed accordingly. (**1 week**)

    - Implement a way to verify a password

    - After verification, allow editing

**(1)** As John (professor), I want to be able to register on the system, so that I can have access to the application. (**2 weeks**)

    - Create a database of users

    - Implement a way to hash their user information

    - Store all user information

    - Create a login page

    - Implement a way to match login credentials with the hashed user information in the database

**(3)** As Jerry (professor), I want to be able to add marking scheme to my tutorial section, so that the teaching assistants know how to mark the assignments.
(**2 weeks**)

- Implement a way to import documents into the application

- Implement a way to add the document to a specific tutorial

**(2)** As May (professor), I want a system that records the students' information, so that I can access it throughout the semester (**2 weeks**)

- Create a database for student grades

- Store the information


# Release Dates

October 21<sup>tst</sup> 2013 – Initial release of core functionality

- Complete all priority 1 and 2

November 14<sup>th</sup> 2013 – Additional important features

- Complete all priority 3 and 4

November 26<sup>th</sup> 2013 – Fine-tuning and completion of all tasks

- Review code, look for refactors, and code cleanup