

# Rebecca Kefan Chen

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## SKILLS

### PROGRAMMING

#### Experienced:

• Java • C++ • Node.js • C • Scheme

#### Familiar:

• HTML • CSS • TypeScript  
• JavaScript •  $\text{\LaTeX}$

### FRAMEWORKS

• Bootstrap • AngularJs • React Native

### DATABASE

• MongoDB • MySQL

### TOOLS

• AWS • Android Studio • IntelliJ • Git  
• Eclipse • Libgdx • OpenGL • Unity

## EDUCATION

### UNIVERSITY OF WATERLOO

#### COMPUTER SCIENCE

- Expected Nov 2022 | Waterloo, ON
- Cum. GPA: 3.70/4.00
- Dean's Honors list(Ave. above 87%)
- President's entrance scholarship with high school average of 98%

## AWARDS

- Ranked 3rd in Unsingle Hackthon
- Top 25% distinction in Canadian Computing Contest
- Top 25% distinction in Euclid Math Contest
- Top 20 in ECOO-CS programming contest

## LINKS

Github:// [Rebecca Chen](#)

LinkedIn:// [Rebecca Chen](#)

## EXTRACURRICULAR

### DEBATING

- Capable of advanced presentational, analytical, and logical thinking skills
- Ranked **Top 20** /450 in National High School Debate Championship

## SUMMARY OF QUALIFICATIONS

- Software design and development skills with **Java**, **C**, **C++**, and **Node.js**
- Experience in **React Native**, **AngularJs**, and **MongoDB**
- Knowledge of mobile development with **Android SDK** on **Android Studio**
- Expertise in designing web-applications using **HTML5**, **Javascript**, and **CSS**

## EXPERIENCE

**BMO FINANCIAL GROUP** | Backend Developer & President of the first Hackathon club in University of Waterloo

Jan 2019 – Present | North York, ON

- Implemented APIs with **Node.js** using AWS Cloud Formation; integrated 5 lambdas into one to boost the efficiency by **20%**
- Built **NoSql** databases with auto-scaling feature on **DynamoDB** and **MongoDB**
- Created **Groovy** scripts on **SoapUI** for automated Integration and Performance testings of microservices

**HACKERLOO CLUB** | Founder & President of the first Hackathon club in University of Waterloo

Jan 2018 – Present | Waterloo, ON

- Handled all administrative responsibilities, including leading executive team meeting, setting direction and building an inspiring vision
- Organized university-scale hackathon competitions with about **100** participants; held workshops for programming rookies
- Developed **club website** for promotional purpose

**MATHSOCIETY** | CFM REPRESENTATIVE | UNIVERSITY OF WATERLOO

Jan 2018 – Aug 2018 | Waterloo, ON

- Elected by CFM students to represent their opinions on the administrative decisions in the MathSoc Council
- Enhanced leadership and skills of **team building**; built confidence in **collaboration** with colleagues

## PROJECTS

### SING WITH ME

- Created real-time Java based Audio-processing Application that applies the **AMDF** pitch detection algorithm to recognize the frequencies of human voices; it converts the frequencies to musical notes and displays a note graph
- Built in **JavaFX** with implementation of TarsosDSP; optimized the pitch detection algorithms **YIN** to enhance the accuracy performance

### MATCHABLE

- Innovative software design for people meeting nearby with similar interests; implemented with Java on Android Studio;
- Acquired knowledge in using **Android SDK** for login/profile pages and **Firebase** as database

### RETRO ANGRY BIRDS GAME

- Built in **Java**; using **Libgdx** and **Box2D** as game engines; **Tiled Map** for UI design
- Enhanced skills of **game development** and **OOP** principals