

# William King

[wking@uwaterloo.ca](mailto:wking@uwaterloo.ca)  
[linkedin.com/in/william-long-king](https://www.linkedin.com/in/william-long-king)  
[williamlongking.github.io](https://williamlongking.github.io)

## Skills

**Languages:** Java, C, SQL, HTML, CSS, Scheme, Visual Basic

**Software & Technologies:** Git, Android Studio, Eclipse, Swing, Retrofit/OkHttp, ARCore

**Other:** Mandarin and French Working Proficiency, Standard First Aid and CPR-C certified

## Education

**University of Waterloo & Wilfrid Laurier University**

*Candidate, Bachelor of Computer Science  
and Bachelor of Business Administration*

September 2018 - August 2023

**86% Cumulative Average**

## Experience

**Foundation for Student Science and Technology** 

*Machine Learning Researcher*

September 2017 - February 2018

- Researched the applications of **signal processing** and **machine learning** in increasing the success of the automated sleep stage scoring process regarding sleep disorder diagnosis
- Wrote a **literature review** determining wavelet transformation and Artificial Neural Networks as the most accurate feature-classifier combination used in automatic sleep stage scoring and sleep disorder diagnosis **(to be published in the Journal of Student Science and Technology)**

**City of Mississauga Aquatics Division** 

*Solutions Developer and Swim Instructor*

August 2017 - August 2018

- Developed a **Java** program with **Swing** GUI for patrons to visually determine guardian to child supervision ratios prior to swimming, with projected **city-wide use in 18 locations** in 2019
- Taught patrons swimming progressions, first aid techniques, and lifesaving skills in a fast paced team setting, demonstrating communication, teamwork, and problem solving skills

## Projects

**DineAR (Deltahacks 2019)** 

- Used **ARCore** to render 3D models of restaurant dishes in AR, allowing users to effectively visualize realistic images of dishes before ordering
- Developed the UI for the app in **Android Studio** while integrating **ARCore** and enforcing version control between team members to create an intuitive experience

**Employee Management System** 

- Created an object-oriented **Java** program with **Swing** GUI that enables businesses to view, modify, and store employee information in a database, increasing administrative efficiency

**Medicord (Hack Western 2019)** 

- Developed an **Android** app that communicates with mock Ontario hospital servers using the **HAPI FHIR** library, enabling accurate patient access to medical history and records during walk-in/specialist appointments and emergency situations

## Awards

- Laurier Starbucks Rewards Case Competition - **3rd place** out of **200+ teams** 2018
- DECA ICDC - Marketing Management **international finalist** (top 15 out of **350+ teams**) 2018
- Canadian Computing Competition - Distinction Award (**top 25% in Canada**) 2018
- MusicFest Canada - Gold Standing in Concert Band Division (**Top 10 in Canada**) 2017