





# David Kang

a.k.a. Seung Gyu Kang | **1B Software Engineering**

 github.com/DavidSGK  
 david.kang@uwaterloo.ca  
 289-400-7134  
 davidkang.ca

## Skills

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- > **Languages:** Proficient: Python, Java, HTML, CSS, JavaScript | Dabbled with: C, C++, C#
- > **Frameworks/Tools:** LibGDX, Box2D, React, Bootstrap, Foundation, Android, Firebase, Git, Linux (Ubuntu)
- > **Graphic Design:** Adobe Creative Suite (Illustrator, Photoshop, After Effects, Premiere Pro)

## Projects

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- > **Plan Me** *MHacks 8*
  - Intelligent calendar web app based on personal priorities determined using pseudo-machine learning
  - Every time a new event or task is entered by the user, the app recommends/reschedules the week
  - Built using React, JavaScript (backend), and Firebase
- > **Bepple** *Course Final Project (SE101)*
  - A suite of multiple "applications" on the Tiva Launchpad C Board + Orbit Booster Pack platform that turns the hardware into a "smartwatch" using the full set of I/O available
  - Written in C and C++ on the Energia platform, a fork of Arduino
- > **Inverzion** *Personal Project*
  - Fast-paced 2D platformer game: flip the sprite's color to match the platforms and survive
  - Built with Java using LibGDX framework and Box2D physics engine
  - Original assets and audio (Adobe Illustrator and FL Studio), currently refactoring in Unity

## Additional Experience

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- > **IRHS DECA Chapter Director of IT** *2014 ~ 2016*
  - Initiated and maintained the Iroquois Ridge High School DECA chapter website
  - Parsed through past exams to create a multiple-choice practice platform for students
  - Directed registration process and group study meeting sessions
- > **Ridge 360 Organization Committee** *September 2015 ~ March 2016*
  - Organized first-ever schoolwide conference "Ridge 360" on the topics of mental health, global citizenship, and leadership; corresponded with students, administration, and speakers alike
  - Directed and managed registration for 1500 students and 40 different workshops using Google Script

## Education

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- > **University of Waterloo** Candidate for Bachelor of Software Engineering, Class of 2021 (GPA: 3.98)

## Awards

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- > **DECA International Career Development Conference Finalist** *2014, 2016*
  - Achieved Top 20 in Hospitality and Tourism Team Decision Making event
- > **CEMC Math Contests** *2012 ~ 2016*
  - 97<sup>th</sup> percentile in Euclid Math Contest (twice), 1<sup>st</sup> place in Canadian Intermediate Math Contest (twice)

## Other Interests

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- > **Music**
  - A Cappella: The Water Boys, UW's all-male auditioned group (ICCA Qualifier), Tenor 2 Section Leader
  - IRHS Concert Band Clarinet Section Leader
- > **Avid Tech Enthusiast**
  - Former editor-in-chief of tech blog *Inverted Tech Analysis* in a team of 4 (2013 ~ 2015)
  - Active follower member on XDA-Developers forums (for Android custom ROMs, kernels, and mods)