David Kang

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

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Skills

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

Projects

> 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, working primarily on front-end

> 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

> 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

> University of Waterloo   Bachelor of Software Engineering, Class of 2021(Expected)

Awards

> DECA International Career Development Conference Finalist   *2014, 2016*
- Achieved Top 20 in Hospitality and Tourism Team Decision Making event

> CEMC Math Contests   *2012 ~ 2016*
- 97th percentile in Euclid Math Contest (twice), 1st place in Canadian Intermediate Math Contest (twice)

Other Interests

> 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)