

Ji Woo Kim

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EDUCATION

Vanderbilt University

Major: Computer Science (Bachelor of Science)

May 2019

Minor(s): Scientific Computing, Engineering Management

RELEVANT COURSEWORK

- **Completed:** Programming and Problem Solving (Java), Digital Logic, Program Design and Data Structures (C++), Computers and Ethics, Linear Algebra, Intro to Geographic Information Systems and Remote Sensing, Discrete Structures, Computer Organization, Intermediate Software Design (C++), Technology Strategy
- **Ongoing:** Programming Languages, Principles of Operating Systems, Ordinary Differential Equations

SKILLS/LANGUAGES

Proficient in C++, HTML, CSS, Javascript, jQuery, Geographic Information Systems (GIS)

Experience with Python, Node.js, Java

Fluent in Korean

PROJECTS

Guitar Hero (C++)

Fall 2016

- Converts a text file with time and notes into a .dat file that simulates guitar sounds via queues, stacks, linked lists, and the *Karplus-Strong* algorithm

Boggle Board (C++)

Fall 2016

- Finds all valid words that can be composed from a 4x4 grid of letters via recursive backtracking and Trie / TrieNode classes

Neverending Story (HTML, CSS, Javascript, jQuery)

Summer 2017

- Creates a neverending choose your own adventure story by allowing registered users to continue existing stories while adding their own choices

WORK/EXPERIENCE

Grueber Lab at Columbia Medical Center – New York, NY

2012-2014

- Conducted independent research projects on the neurons of *Drosophila melanogaster* in relation to their development and function
- Presented Research at The New Jersey Junior Science & Humanities Symposium and submitted to Intel Science Talent Search

Grace Ministry of Korean Community Church – Englewood, NJ

2012-2014

- Volunteered in caring for people with disabilities such as Down Syndrome, Autism, and Asperger's Syndrome by assisting in feeding, teaching, and entertaining

LEADERSHIP/CAMPUS INVOLVEMENT

Vandy_LAN - Event Committee

Spring 2017

- Come up with ideas, events, and themes for weekly meetings, bi-annual conventions, and fundraisers
- Communicate with different organizations both on and off campus to secure partnerships and sponsorships

Vanderbilt League of Legends - Program Coordinator / Vice President

Fall 2016 – Spring 2017

- Come up with ideas and events for online and offline meetings to foster, develop, and educate the gaming community on campus
- Communicate with the public and with organizations both on and off campus to secure partnerships and participation

University League of Legends (uLoL) Campus Series – Captain / Manager

Fall 2016 – Spring 2017

- Network and communicate with other schools in order to schedule team scrimmages
- Manage and be responsible for group actions and decisions in both casual and competitive environments
- Communicate and work with individuals in group settings to establish benchmarks, address individual concerns, and reach goals

HONORS/AWARDS

National Merit Scholarship Semi-Finalist

2014-2015

1st Place in NJ Bergen County Consumer Bowl/ 3rd Place in NJ Northern Regionals

2013 / 2014

AP Scholar with Distinction

2013-2014

Top 10 Distinction in School for Bergen County Math League

2011-2014