

# Daniel Kwon

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## EDUCATION

### Washington University in St. Louis

Major in Computer Science & Political Science

MAY 2020

GPA 3.70—Dean's List for Fall 2014, Spring 2015, Spring 2018, and Fall 2018 semesters

Relevant Courses—

- Object-Oriented Software Design Laboratory
- Introduction to Parallel and Concurrent Programming
- Data Structures and Algorithms
- Cloud Computing with Big Data Applications
- Rapid Prototype Development & Creative Programming
- Introduction to Intelligent Agents Using Science Fiction
- Video Game Programming

## ACTIVITIES

### Health Equity Hackathon: Social Determinants Participant—

• Using data mining and processing technologies such as R, Python, Java, and AWS, organized an automated solution to gathering of information relevant to abolishing the social barriers against access to healthcare.

ST. LOUIS, MO — SEPT. 2019

### Spirit of Korea, PL4Y Dance

K-Pop Dance Coordinator—

• Led weekly practices to prepare for cultural performances such as Spirit of Korea. Nurtured a lively team environment and shared an authentic K-Pop experience with participants.

ST. LOUIS, MO — JULY 2014 – PRESENT

## SKILLS

### Proficient—

PHP  
JavaScript  
Java  
MySQL  
C++  
Node.js  
HTML  
CSS  
R

### Familiar—

Apache Hadoop  
React  
Python  
Unity Engine  
Socket.io  
Spark  
jQuery  
AJAX  
Unity C#

### Languages

English (fluent)  
Korean (native)

## EXPERIENCE

### Office of Public Affairs, Washington University in St. Louis

Web Development Intern—

- Lead development of a WordPress plugin functioning as user data transmitter to CRM across 1200+ school websites to maintain an accurate database of users. (PHP & JavaScript)
- Fulfill tickets such as implementing functions to manage Google Analytics tags, creating random display headline in Wordpress themes through PHP, and debugging obsolete InfiniteScroll features.

ST. LOUIS, MO — JUNE 2019 – PRESENT

### Weidenbaum Center Undergraduate Research Program

Research Assistant, "Institutionalizing Race and Representation in Communities and Schools"—

- Managed digitization of St. Louis election records and worked closely between scholars and government officials to responsibly handle government documents and other sensitive documents.

ST. LOUIS, MO — DEC. 2018 – JUNE 2019

### KATUSA (Korean Augmentation to the United States Army)

Sergeant, NCOIC of Department of Anesthesia, 121st CSH / 68W, Combat Medic Specialist—

- Managed supply and maintenance of anesthesia operations held in three operating rooms (ORs) and an emergency C-Section OR, including carts containing 30+ anesthetic medications and airway equipment.
- Operated as a team with the anesthesiologists and nurse anesthetists to provide medical care by securing IV lines on patients and assessing the primary vital signs.

SEOUL, SOUTH KOREA — SEPT. 2015 – JUNE 2017

## PROJECTS

### k-Means Uber Recommendation

Recommendation for Uber Vehicles' Idle Location with Big Data Analysis—

- Preprocessed and analyzed 4.5 million data points from 2014 NYC Uber pickup geolocation data through PySpark.
- Job developed and debugged locally then ran to full scale on the Cloud using AWS S3 and AWS EMR clusters.

(<https://github.com/danielkwonwu/k-means-uber-recommendation>)

—NOV 2019

### SimpleChatroom

Node.js + Socket.io Multi-Room Environment Chatroom—

- Light-weight basic chatroom implementation with Node.js and Socket.io that features such as direct messages, private chats with custom room names, and kick/ban moderation by room owners.

([danielkwon.net:3456/](https://danielkwon.net:3456/))

—NOV 2019

### AppTrac

PHP + MySQL Web App for Job Application Tracking—

- Created as a simple but customized way of keeping track of job applications with proficiency in PHP and MySQL database operations.

([danielkwon.net/~danielkwon/apptrac/](https://danielkwon.net/~danielkwon/apptrac/))

—OCT 2019