

# Daniel Kwon

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www.danielkwon.net  
<https://github.com/danielkwonwu>

## EDUCATION

### Washington University in St. Louis

Master's in Computer Science

EXPECTED MAY 2021

Bachelor's in Computer Science and  
Political Science

MAY 2020

3.65/4.0 GPA

#### Relevant Courses (\*Courses in progress)

- Introduction to Machine Learning\*
- Introduction to Artificial Intelligence\*
- Theory of Parallel Systems\*
- Object-Oriented Software Design Laboratory
- Cloud Computing with Big Data Applications
- Rapid Prototype Development & Creative Programming
- Mobile Application Development

## ACTIVITIES

### Health Equity Hackathon: Social Determinants

Participant

ST. LOUIS, MO • SEPT. 2019

- Organized an automatic solution using Java, Python, and AWS Cloud to crawl data points of 300+ local medical facilities, addressing social barriers to healthcare access.

### Spirit of Korea, PL4Y Dance

K-Pop Performance Coordinator, Dancer

ST. LOUIS, MO • JULY 2014 – MAY 2020

## SKILLS

### Programming Languages

Java	JavaScript	Node.js
Kotlin	Python	PHP
C++	C#	

### Tools

React	Express	MySQL
Unity	Hadoop	Spark
jQuery	Git	

AWS (EC2, S3, EMR)

### Languages

English      Korean (fluent)

## EXPERIENCE

### Dept. of Computer Science, Washington University in St. Louis

Course Developer - Programming Systems and Languages

ST. LOUIS, MO • JUNE 2020 – PRESENT | (<https://github.com/danielkwonwu/testcase-share>)

Supervisor: Dr. Dennis Cosgrove

- Engineer web platform for students to share custom test cases illustrating approaches to assignment.
- Construct interactive user front-end using React and SCSS and efficient backend with Express and MySQL database.

### Head Teaching Assistant - Intro to Parallel Programming

ST. LOUIS, MO • JAN. 2020 – MAY 2020

- Held 2 weekly office hours for students on concepts of parallel programming and concurrent data structures.
- Led assignment grading for 40+ students with individualized feedback.

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

Web Development Intern

ST. LOUIS, MO • JUNE 2019 – JAN. 2020

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

### United States Army

KATUSA Sergeant, NCOIC, Department of Anesthesia, 121 CSH,  
65th Medical Brigade

SEOUL, SOUTH KOREA • SEPT. 2015 – JUNE 2017

- Translated communication between the US military and the local Korean organizations in joint operations such as UFG and Foal Eagle.
- Initiated patient healthcare procedures and maintained anesthesia operations held in four operating rooms.

## PROJECTS

### GULP

Food Review Website with Geolocation Functionalities

DEC 2019 | (<https://github.com/danielkwonwu/gulp>)

- Created a menu-centered restaurant review website using React for front-end and Express for server-side, integrating Google Cloud Platform's Geolocation API and Static Map API to identify restaurants near user.

### My Treasure No Touchy!

Tower-Defense Game produced with Unity and C#

DEC 2019 | (<http://danielkwon.net/portfolio/my-treasure-no-touchy.html>)

- Designed tower Prefabs with mouse-cursor tracking aim and interactive projectiles with basic physics engine.

### k-Means Uber Recommendation

Recommendation for Uber Vehicles' Location with Big Data Analysis

NOV 2019 | (<https://github.com/danielkwonwu/k-means-uber-recommendation>)

- Analyzed 4.5 million data points from NYC's Uber pickup data (2014) with MapReduce algorithms using the AWS EMR clusters.