

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
- Mobile Application Development (in progress)

ACTIVITIES

Health Equity Hackathon: Social Determinants Participant—

- Organized an automatic solution using Java, Python, and AWS Cloud to gather information relevant to abolishing social barriers against access to healthcare.

ST. LOUIS, MO — SEPT. 2019

Spirit of Korea, PL4Y Dance

K-Pop Performance Coordinator, Cover Dancer—
• Led weekly team practices to prepare for Spirit of Korea and PL4Y Showcase.

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
Kotlin

Languages

English (fluent)
Korean (native)

EXPERIENCE

Department of Computer Science, Washington University in St. Louis Teaching Assistant—

- Hold 2 weekly help sessions and give demonstrations on converting sequential solutions to run concurrently across multiple processors for 40+ students.
- Facilitate course understanding of groups of 30+ students in areas of constraint optimization, utility theory, and game theory.
- Provide real-time assistance to students on the online classroom.

ST. LOUIS, MO — JAN. 2020 – PRESENT

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 – JAN. 2020

United States Army

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

- Translated between US Army medical officers, Korean Army medical officers, and South Korean civilian medical staff in conferences, joint operations and trainings such as Ulchi Freedom Guardian and Foal Eagle.
- Initiated patient healthcare procedures and maintained anesthesia operations held in four operating rooms, including carts containing 30+ anesthetic medications and airway equipment.

SEOUL, SOUTH KOREA — SEPT. 2015 – JUNE 2017

PROJECTS

GULP

Food Review Website with Geolocation Functionalities—

- Created a simple menu-centered restaurant review website using React to build the front-end and Express for server-side.
- Integrated the Google Cloud Platform's Geolocation API and Static Map API to enable users to identify restaurants near-by their current location.

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

—DEC 2019

My Treasure No Touchy!

Tower-Defence Game produced with Unity and C#—

- Designed a game with a clearly defined core-loop and fun-to-play game mechanics with multiple objects interacting with each other.
- Managed the implementation of tower Prefabs with functionalities of aiming and firing projectiles at enemy characters.

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

—DEC 2019

k-Means Uber Recommendation

Recommendation for Uber Vehicles' 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