

# Jinwoo Jacob Kim

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## EDUCATION:

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**Georgia Institute of Technology, Atlanta, GA**

*Bachelor of Science in Computer Science (August 2017 – Present; Expected Graduation: December 2019)*

- GPA: 3.86/4.0 (*Dean's List Spring 2017*)
- Threads: Intelligence, Media
- Selected Coursework: Data Structure and Algorithms (Java), Object and Design, OOP, Intro to AI(Python), Computer Organization and Program(C), Design and Algorithm, Computer Graphics, Computer Audio

## TECHNOLOGY SUMMARY:

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**Programming Languages:** Java, Python, C, C++, SQL, Tcl

**Frameworks and Tools:** OSGI, Github, Agile

**Other Related Skills:** Microsoft Office (Excel, PowerPoint, Word)

## PROFESSIONAL EXPERIENCE:

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**Datapath, Duluth, GA, USA**

*Software Engineer Intern, May 2018 – August 2018*

- Created an automated SMS service for Datapath's MaxView Software in Java OSGI framework to replace legacy mailing service
- Designed admin configuration pages using web designer tool DGLux5 and JavaScript to allow greater ease of use and integration
- Improved user specific configurability by display cell-phone carrier data provided by SQL database
- Interfaced with satellite data and commands using SNMP and UDP protocols in Tcl scripts to process unreadable satellite bit stream data into user readable values

**Center for 21<sup>st</sup> Century Universities, Atlanta, GA, USA**

*Research Assistant, November 2017 – April 2018*

- Collaborated with Deloitte's data science team to aggregate strategic plans and budgets for 600+ public universities across the U.S. and find trends in current and future university plans in respect to funding from state governments
- Created Python program to automatically pull search results of spread sheet items to optimize time spent in initial data gathering phase
- Facilitated speedier and less error prone analysis of data by writing Python/Batch scripts to convert pdf files to plain text

## PERSONAL PROJECTS:

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**Unix Based Shell**

- Developed a custom shell for Unix Environment built from scratch in C++ with features such as foreground and background job handling, built in functions, and basic piping functionality
- Used low level system calls to communicate with the Unix OS to perform various tasks

**New York City Rat Population Tracker**

- Created an Android mobile app that records incidents of rat sightings in NYC to help users avoid high rat traffic
- Integrated Firebase into the app to store user information and rat sighting data and allowed users to view other user's entries
- Improved sighting information readability by integrating 3<sup>rd</sup> party graphing API to create data visualization of rat sighting occurrences over time

**Smart-Bell**

- Created a prototype IOT dumbbell using an Arduino device to keep track of number of reps and sets performed using Arduino sensors
- Experimented with using Bluetooth capabilities in Arduino device to send workout data back to computer for analysis
- Developed a Python program to calculate next workout based on transmitted set data and previous workout routine to simplify user workout experience

## EXTRACURRICULAR:

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**Student Government Association (IT Board Committee)**

**VGDev (Member)**

**Power Lifting Team (Member)**

*August 2018 – Present*

*August 2018 – Present*

*January 2017 – August 2017*