# SUNWOO KANG

swkang73@stanford.edu | Stanford, CA 94305 | 650-250-6375
http://web.stanford.edu/~swkang73/ | https://github.com/swkang73
Looking for Full-Time SWE starting from March 2021

## CORE SKILLS

Programming: Python, bash, Typescript/Javascript, html/css, Swift, C/C++, dart/flutter, Java, SQL
AWS services (EC2, VPN), Hadoop/Spark, NodeJS, Docker, Pyramid/Flask
Language: Korean (fluent), English (fluent), Mandarin (intermediate)

## CAREER EXPERIENCE

**Course Assistant, Stanford University**                              *September 2020 – December 2020*
Assisted teaching CS145: Data Management and Data Systems
- Part of the teaching team for a course taught by Dr. Narayanan Shivakumar from Google BigQuery
- Contributed & managed assignments written in SQL and python and set in Google Colab environment

**Software Intern at Invitae**                                         *June 2020 – September 2020*
Built analysis pipeline for lab automation
- Built automation system for troubleshooting sequencing results from variant confirmation process
- Created complex and interactive web visualization tool for clinical interpretation based on React framework and Plotly visual tools
- Troubleshooted lab monitoring and log system inspecting internal database and API calls

**Software Intern at Genentech**                                       *June 2019 – September 2019*
Created web visualization for MS based proteomics
- Developed an interactive web visualization tool using typescript supporting multi-scale visualization
- Ran high throughput computation analysis through Spotfire, R, and SQL queries
- Selected for Genentech Leader Intern Exchange program (gLINX) and mentored by senior VP executive

**Research Assistant at Stanford Medical Center**                      *June 2017 – Present*
Developed data storage and infrastructure for human breath analysis
- Collected and processed data for characterizing pattern using Principal Component Analysis (PCA)

**SWE Intern at Streami Inc. (Blockchain startup)**                    *August 2018 - September 2018*
Backend Engineer
- Performed network performance test between Amazon Web Service centers located in Asia using AWS tools
- Tested GOPAX API server to identify mismatch between server response and documentation

## EDUCATION

**Stanford University**                                                *September 2016-March 2021*
M.S. Candidate in Computer Science. Expected to graduate March 2021.
B.S. in Biomedical Computation.
Korea Presidential Science Scholarship for Four Years
- Relevant Coursework: Artificial Intelligence: Principles and Techniques (CS221), Mining Massive Data Sets (CS246), Data Management and Data Systems (CS145), Design and Analysis of Algorithms (CS161), iOS Application Development (CS193P), Principles of Computer Systems (CS110)

## Extracurricular Activities

**Google Games Bay Area**                                             *April 8, 2017*
Team leader
- Team ranked top 20 out of 110+ student teams from Stanford University and UC Berkeley
- Used java program to produce arraylist of prime numbers, found quickest route using Dijkstra Algorithm

**Sigma Psi Zeta, Asian-American Greek Sorority**                     *September 2017 – October 2019*
Recruitment Chair & Web Designer