

Wonyoung Kim

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Education	San Jose State University Candidate for B.S in Computer Science <ul style="list-style-type: none">● Relevant CourseWork: Data Structures and Algorithms, Object Oriented Programming, Server-Side Web Programming, Computer Architecture, Linear Algebra, Statistics, Multivariable Calculus, Computer System, Programming Paradigms, Discrete Mathematics.	San Jose, CA Class May 2021
Skills	<ul style="list-style-type: none">● Software : Java, Python, Ruby, JavaScript/HTML/CSS/PHP, Linux.● Languages : Fluent in Korean and English.	
Projects	Personal Website <ul style="list-style-type: none">● Using Bootstrap framework and libraries to create a sidebar-equipped Personal Portfolio website.● Developing user-interface with HTML, CSS, JavaScript. Pathfinding Visualizer <ul style="list-style-type: none">● Built a shortest pathfinding visualizer and randomized maze generation algorithms.● Implemented 5 different algorithms based on A*Search and Dijkstra's algorithms. DNA Sequencer <ul style="list-style-type: none">● Displayed mutation's distances in different gene sequences.● Stored sequenced gene data in FastA format, and wrote classes to manage and serialize genome-level data.● Created a string difference algorithm to efficiently detect mutations between reference and possibly mutated genes.● Used Object-Oriented principles to modularize code and allow for ease of maintenance. Bloom Filter based URL Shortener <ul style="list-style-type: none">● Allowed users to provide long URLs and shortens URLs● Wrote interface for the URL Shortener using object oriented principles and ensured correctness through unit tests.● Implemented bloom filter data structure for fast, probabilistic querying of shortened URLs to avoid duplicates.	San Jose, CA 2020 Feb - Present San Jose, CA 2019 Fall San Jose, CA 2019 Summer San Jose, CA 2019 Spring
Experience	Korean Tutor <ul style="list-style-type: none">● Scheduled weekly one-on-one tutoring sessions.● Created customized teaching syllabus according to each student's need and level.● Provided feedback and coaching to students to enhance language skills and prepare for tests.	Los Angeles, CA 2018 Winter
Activities & Awards	Activities : SJSU CS Club, Marathon, Swimming, Boxing, SJSU Wrestling Club.	