

Wonyoung Kim

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Linkedin : www.linkedin.com/in/Wonyoung-Kim | Github : <https://github.com/Wonyoung-Kim>

Personal Website : <https://wonyoung-kim.github.io/>

Objective **Software Engineer or Software Developer (front or backend)**

Education **San Jose State University** **San Jose, CA**
Candidate for B.S in Computer Science Class May 2021

- **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.

Skills

- Software : Java, Python, Ruby, JavaScript/HTML/CSS/PHP, Linux, x86.
- Languages : Fluent in Korean and English.

Projects **Personal Website | Full stack** **San Jose, CA**
● Creating personal website using HTML/CSS/Bootstrap/JQuery 2020 Feb - Present

Pathfinding Visualizer | Java **San Jose, CA**
 ● Built a shortest pathfinding visualizer and randomized maze generation algorithms. 2019 Fall
 ● Implemented 5 different algorithms based on A*Search and Dijkstra's algorithms.

DNA Sequencer | Java **San Jose, CA**
 ● Displayed mutation's distances in different gene sequences. 2019 Summer
 ● 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 | Java **San Jose, CA**
 ● Allowed users to provide long URLs and shortens URLs 2019 Spring
 ● 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.

Experience **Korean Tutor** **Los Angeles, CA**
● Scheduled weekly one-on-one tutoring sessions. 2018 Winter
● 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.

Activities & Awards

Activities : SJSU CS Club, Marathon, Swimming, Boxing, SJSU Wrestling Club.