

# Wonyoung Kim

San Jose, CA • 909-747-8828 • [wonyoung.kim@sjsu.edu](mailto:wonyoung.kim@sjsu.edu)

[www.linkedin.com/in/Wonyoung-Kim](https://www.linkedin.com/in/Wonyoung-Kim) • <https://github.com/Wonyoung-Kim>

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

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**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.