

# Wonyoung Kim

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## EDUCATION

### San Jose State University

San Jose, CA

Bachelor of Science, Computer Science

Graduation Date: May 2021

- Cumulative GPA: 3.6; Major GPA: 3.9
- Relevant Coursework: Software Engineering, Operating System, Game Development, Programming Paradigms, Computer Architecture, Formal Languages and Computability, Mobile Device Development, Advanced Python Programming, Web Application Development, NoSQL Database System

## WORK EXPERIENCE

### Weddell

Seoul, South Korea

Back-End Software Engineer Intern

May 2020 - Sept 2020

- Constructed 30 RESTful APIs to interact with front-end parts using the SpringBoot framework
- Programmed over 2,500 data sources and performed operations such as optimizing mobile application sales, expanding into new markets, and using Spring Data framework features (Spring JDBC, Spring ORM)
- Implemented Spring DAO using the Hibernate Framework to fetch 100GB of data a database and reduced redundant data access statements by 3.8%
- Optimized NoSQL database model by creating indexes on each dataset with MongoDB, resulting in a 3.7% increased scalability and 7.4% reduced latency on data system

## PROJECT EXPERIENCE

### AI Featured Secretary Application

Jan 2021

- Built an AI Featured Secretary Application using web crawling technology with the Pandas library to create customized reports for users on current stock prices, popular local dining options, and weather information
- Detected human voice using SpeechRecognition library and transcribed audio to text using speech to text (STT) with Kakao OpenAPI

### Travel Log History Application

Sept 2020

- Launched an interactive map with Mapbox GL JS & React.js to enable users to record and visualize their travels
- Established backend APIs with Node.js & Express.js to store and retrieve user journeys from MongoDB Atlas and displayed journeys/location points accordingly on the map

### Stock Search Application

Mar 2020

- Developed a real-time android mobile application that allowed users to search for any company's latest stock information by using HTTP requests by cross-checking 5+ sources with the Tiingo API

### [wonyoung-kim.github.io](https://wonyoung-kim.github.io)

May 2019

- Designed a personal site using jQuery/HTML/CSS/Bootstrap.
- Deployed using GitHub.

### DNA Sequencer

Jan 2019

- Computed a string difference algorithm using Java to efficiently detect mutations between 3,000 reference and possibly mutated genes
- Stored sequenced gene data in FastA format, writing 12 classes to manage and serialize genome-level data

## SKILLS & INTERESTS

**Programming Languages:** Java, Python, C, Javascript, HTML, CSS, PHP

**Databases/Cloud :** MongoDB, Cassandra, SQL, AWS, Heroku

**Frameworks:** Spring Boot, React JS, Bootstrap, Django.

**DevOps:** Postman, Linux, Docker, GitHub

**Interests:** Hoplite Club (develop optimal Java solutions), SJSU Computer Science Club, SJSU Wrestling Club