

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 SpringBoot framework
- Programmed over 2,500 Data Sources to perform operations such as optimizing mobile application sales, market expansion, and product mix using Spring Data framework features (Spring JDBC, Spring ORM)
- Implemented Spring DAO using Hibernate to fetch data from 100 GB database and avoid redundant data access statements by 8%
- Optimized NoSQL database model by creating indexes on each dataset with MongoDB for 12% increased scalability and 7% reduced latency on data system
- Enhanced algorithms and business logic leading to a 95% accuracy improvement

PROJECT EXPERIENCE

AI Featured Secretary Application

Jan 2021

- Built an AI Featured Secretary Application using web crawling technology with Pandas to create customized reports for 100+ users on current stock prices, popular local dining options, and weather information
- Detected human voice using SpeechRecognition library and transcribed audio to text form using speech to text (STT) with Kakao OpenAPI

Travel Log History Application

Sept 2020

- Launched interactive map with Mapbox GL JS & React.js to enable 100+ users to record and visualize travels
- Established backend APIs with Node.js & Express.js to store and retrieve user's journeys from MongoDB Atlas and display 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 calls from cross-checking 5+ sources with Tiingo API

wonyoung-kim.github.io

May 2019

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

DNA Sequencer

Mar 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, PHP, SQL, JSON

Web Technologies: HTML, CSS, Bootstrap, React JS, docker, GitHub, Azure

Skills: Heroku, Postman, Linux, MongoDB, Cassandra, PostgreSQL

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