Daniel Seung Hyeon Ryu

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Technical Skills:

- Programming Languages: Javascript, Python, Java, C++, Swift, C, Typescript, SQL, Solidity, C#, PHP
- Web-Design: React.js, HTML, CSS, MUI, Figma
- Frameworks: Micronaut, Node.js, Truffle, Selenium
- Database: Firebase, MongoDB, PostgreSQL, Flyway
- Experience with: AWS, Git, Github Actions, Docker, Apache, SVN

Work Experience:

Research Software Engineer

Sep. 2022 - Current

Washington University in St.Louis, MO

- Released an iOS health application for tracking the functional status of 100+ patients with musculoskeletal disorders using Swift, PostgreSQL, and Apple Healthkit API.
- Revamped the EDC application for doctors to enroll subjects in the study using Javascript and Java and reduced latency by 5 ms.

Software Engineer Intern (Full-stack)

Jun. 2022 - Aug. 2022

Object Computing Inc. STL, MO

- Launched a new onboarding web application and innovated the onboarding experience for new hires and HR
 managers by streamlining the whole process, reducing the time taken to onboard a new employee by 40%.
- Optimized web components using React and Material UI(MUI) library and shortened total render time by 6% using React and Material UI(MUI).
- Constructed RESTful web services and DTOs with Java using the Micronaut framework and enhanced the elapsed time by 10% for SQL queries to execute within the PostgreSQL database.
- Streamlined and simplified the process of tracking the progress of signing employment documents by integrating the SignRequest API.

Software Engineer

Jun. 2019 - Jan. 2020

Onnuri iKorea, Seoul, South Korea

- Introduced a web data mining tool using Python, Selenium WebDriver, and BeautifulSoup library to collect and process data for understanding target consumers' online behaviors.
- Devised an AI tool using Python that can collect data and analyze number of potential customers from over 300 Instagram accounts based on keyword inputs.

Projects:

ConcertGO | github.com/danie1r/ConcertGO

Dec.2022 - Present

 Currently developing a Chrome Extension/iOS app for viewing and buying tickets to local concerts using Spotify API, Javascript, and Swift.

Pepper Inc. | www.peppermotor.com

Nov. 2021 - Dec. 2022

- Spearheaded a group of developers and designers in creating an NFT collection business that was recently launched in October 2022.
- Deployed smart contract for the NFT marketplace dApp and NFT token on the Polygon network using Solidity,
 Ethereum Virtual Machine API (EVM), OpenZeppelin, and Typescript.
- Created an NFT collection website with React and CSS and deployed the website using AWS EC2 Instance.

CSE332 - Object Oriented Programming

Aug. 2022 - Dec. 2022

- Built Tic-Tac-Toe and Gomoku games and developed adversarial AI agents to play against the user using C++.
- Designed Minmax Algorithm for the Al agent using C++ and had an 80% win rate against human players.

Catch Me If You Can | github.com/danie1r/Catch-Me-If-You-Can

Nov. 2022 - Dec. 2022

- Directed an iOS game application that hosts an interactive multiplayer tag game using Swift, MapKit, and Ruby.
- Constructed the backend service with Realtime Firebase Database, and scaled the application to hold up to over 100+ players.

Poke-Chat | github.com/danie1r/Poke-Chat

Nov. 2021 - Dec. 2021

Expected Graduation: May 2024

- Produced a web application game inspired by the Pokémon game with a real-time chat room feature using React.js, React Bootstrap, and Javascript.
- Implemented real-time messaging with MongoDB database, React Redux, and Socket.io library.

Education:

Washington University in St.Louis | McKelvey School of Engineering

Candidate for BS and MS in Computer Science

GPA: 3.9

Honors: Tau Beta Pi - Engineering Honor Society

Relevant Coursework: Object-Oriented Software Development, Parallel and Concurrent Programming, Mobile App Development, Artificial Intelligence, Data Structures and Algorithms, Rapid Development and Creative Programming