Jiyoung Yoon

Passionate and results-driven **software engineer** with a proven track record in developing innovative solutions and optimizing performance. Extensive experience in data structures, algorithms, and teamwork, dedicated to delivering high-quality software.

Portfolio Website:
Raina (rainayoon.com)
LinkedIn:
Jiyoung Yoon | LinkedIn
Github:
CodingJiyoung
Personal Email:
jiyoung.yoon11@gmail.com

EXPERIENCE

GENERAL MOTORS - Software Engineer

02/07/2022 - Current

- **Java Spring Batch Application:** Developed an application to track incoming files based on location, date, and time, resulting in a **50%** increase in reporting speed. Implemented daily email notifications for missed files.
- **Swagger API Integration:** Integrated Swagger API to auto-generate Swagger UI-based API documentation, simplifying the documentation process.
- **Dealer Website:** Created a website using **Spring Boot** and **Angular**, addressing over **3,000 issues** identified by SonarLint, leading to a **90%** improvement in coding quality.
- **Deployment Processes:** Improved deployment processes by implementing **Azure** and **Kubernetes**, reducing deployment times and enhancing scalability.
- **React Application:** Developed a **React** application using **C#** that integrates **Azure Document Intelligence** and **Cognitive Services** to automate file verification. This solution enhances accuracy and efficiency in document validation with **AI-powered** data extraction and analysis.
- **Product Development:** Led end-to-end development of several products, including system requirements identification, workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- **CI/CD Pipeline:** Managed continuous integration and development pipeline, including pull requests, code reviews, load/stress testing, and unit/integration/e2e testing.

MORSE STUDIO - Undergraduate Robotic Research Team

11/1/2020 - 12/20/2021

- Conducted research on experimental characterization of underwater visible light channels for photo-acoustic underwater communication.
- Utilized **C++** on **Nvidia Jetson** devices for communication experiments using visual light while underwater.

EDUCATION

Georgia State University (2017 - 2021)

B.S. Computer Science

Minor in **Mathematics**

Major GPA: **3.92**

Honour's Dean's List All Semester**s**

SKILLS

Programming Languages

Java, Python, C#, C++, JavaScript, HTML, CSS

Libraries & FrameWorks

React, Angular, Next Js, Node js, Express, Flask, Spring Boot, Redis

Tools & Platforms

AWS, Azure, Kubernetes, Kafka, PostgreSQL, Git, Firebase, MongoDB, Artifactory

ACHIEVEMENTS

Hack Girl Summer - 1st Place

Jun 4 - 6, 2021

Developed Honest Hire **React** Webpage, a platform designed to reduce bias and discrimination in the hiring process

- Collaborated with graduate students to collect data and develop the website using **HTML**, **CSS**, and **JavaScript**.

AVINA CAMPUS- Front-End Developer Internship

05/01/2021 - 08/01/2021

- Assisted in developing essential **React** web pages and features, as well as backend integration with the frontend.
- Primarily developed new pages for the AVINA website using **React.js**, while enhancing the design and functionality of existing pages.

ARTIC- Software Engineer

07/15/2021 - 12/15/2021

- **Implemented a Slurm REST API** using Python to efficiently monitor the status of jobs, automatically tracking their completion and providing real-time updates.
- **Developed a Python Django website** that allows users to input coordinates, which the system uses to generate and display molecular structures. The website also performs calculations to determine the properties of the molecules, offering a comprehensive tool for molecular analysis.

PROJECT

Parking App — *June 2021 - Jul 2021*

Designed, built, and tested a **React Native mobile app** using **Google Maps** API and **Firebase**, creating an intuitive solution for customers to find available parking spots.

Food Track App — *June 2021 - Jul 2021*

Developed a **React Native Food Track App** that monitors food expiration dates. Primarily served as a **back-end developer**, responsible for implementing specified features within the app.

COVID- 19 Cell Classification — *Aug 2021*

Developed a **machine learning model** using **TensorFlow and Keras** to classify whether a cell in an image is COVID-19 positive or negative. The model was trained on a dataset of cell images and implemented as a web application to allow users to upload images and receive real-time classification results, aiding in the early detection and analysis of COVID-19.

Hacklahoma Hackathon 2021 - 1st Place

Feb 6 - 7, 2021

Developed Retro Room, a web application that uses **Google Cloud Vision** and **echoAR** to allow users to photograph objects and visualize their appearance from 50 to 70 years ago, transforming images into **3D** models from the selected era.