Robin (Hyunwoo) Kim

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Education

Georgia Institute of Technology Atlanta, GA

M.S. and B.S. in Computer Science, GPA: 3.84 *Aug. 2021 – May 2025*

- Relevant coursework: Data Structures and Algorithms, Operating Systems, Computer Networking, High-Performance Computing Architecture, Processor Design, Information Security

Work Experience

Software Engineering Intern May 2023 – Dec. 2023

Verint Systems *Alpharetta, GA*

- Sole responsibility for implementing, integrating, and extensively unit testing the Datadog library using Java
- Developed REST API deployed to 1000+ servers for probing the health of the service through synthetic testing
- Examined packet-level events using WireShark to identify issues with blocked HTTP requests
- Built dashboards, monitors, Service-Level Objectives from encompassing Datadog metrics that decreased the amount of email alerts for developers by 90%

Undergraduate Teaching Assistant Aug. 2022 – May 2023

Georgia Institute of Technology *Atlanta, GA*

- Guided students daily for a course with 250+ students teaching Python and programming fundamentals
- Provided one-on-one support through office hours to help students debug code and clarify concepts

Relevant Experience

Student Research Assistant Jan 2024 – Present

Georgia Institute of Technology *Atlanta, GA*

- Conducting research on Low Earth Orbit satellite networks exploring the value of satellite networks as a backup for cellular networks in case of a disaster cutting off a city from connecting to the internet
- Simulating satellite networks to reveal the impact of LEO dynamics on latency and bandwidth using Python

Student Team Lead Aug 2023 – Dec 2023

Georgia Institute of Technology *Atlanta, GA*

- Led the Image Processing sub-team creating new algorithms for identifying diseases such as Pneumonia based on the frontal chest x-ray picture of patients
- Guided members in weekly meetings and Hackathons to debug issues with Python, SQL, Linux Shell
- Combined the evolutionary algorithm engine EMADE with transfer learning to generate higher performing models

Projects

Plant Tomodachi | *Unity, C#, Firebase, Python, Flask, Git* Jan 2023 – March 2023

- Developed an IOS game incorporating location data and camera use to encourage outdoor user activity
- Built a Tensorflow Model for image classification and hosted as API on AWS to identify the plant type of image
- Implemented user authentication and maintained consistent user data cached through local JSON file and backed up by Firebase

NBA Player Sentiment Analysis | *Python, Django, PostgreSQL* Nov 2022 – Dec 2022

- Created a web application that tracks the public sentiment data on an NBA player through Twitter API
- Aggregated data from past API calls in PostgreSQL database for graphs showing historical and real-time trends
- Performed natural language processing using TextBlob on Tweets mentioning the player to display scores

J-pop Song Recommender | *JavaScript, Python, Django, PostgreSQL, HTML, CSS* Dec 2021 – March 2022

- Developed a full-stack web application that allows users to discover new Japanese songs and artists
- Designed the database schema that stores songs, artists, and their popularity scores to display popular picks

Technical Skills

Languages: Python, Java, C, C++, C#, JavaScript, HTML, CSS, SQL
Technologies: React, Node.js, Express.js, Django, Tailwind, Firebase, MongoDB, PostgreSQL, MySQL, Git, GitHub, Docker, Bash Shell, Linux, Jira, Confluence, Unity, Railway, AWS EC2