

AARON MIN SOO KANG

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Experience

Software Engineer Intern

Jun 2024 - Aug 2024

Stryke

LaGrange, IL

- Resolved over 40 tickets related to software bugs, configurations, and testing.
- Implemented 3 new features for the Android application, enhancing functionality.
- Improved database query performance, reducing retrieval time from 1.5 seconds to 0.7 seconds.
- Authored the initial version of engineering documentation from scratch.

Software Engineer Intern

Sep 2023 - Mar 2024

EnCycle

Busan, South Korea

- Challenged existing motion tracking software and built the only piece of software approved by the Korean Regulations Department for ballast water treatment testing system which increased accuracy of motion detection on microcontrollers by 30%
- Created an API facilitating communication between web applications and industrial cameras.
- Implemented 50+ test cases to ensure product reliability and security with the PyUnit framework.
- Collaborated with the research team to collect and label over 1,000 images for training datasets.

Undergraduate Research Assistant

Jan 2020 - Feb 2021

Music, Imaging, Neural Dynamics (MIND) Laboratory

Boston, Massachusetts

- Developed Python automation scripts to preprocess electrocardiogram (ECG) data, reducing data processing time from 2 months to 1 week.
- Prototyped an FDA-approved medical device that converts light frequencies into sound while working with other engineers.
- Administered electrocardiography experiments to 50+ participants.
- Built a program in JavaScript that automates surveying process, which reduced experiment time by 30 minutes.

Skills

Languages sql, python, go, c/c++, java

Frameworks/Libraries pandas, numpy, tensorflow, nodejs

Projects

Go Assembler

June 2024

Developer

- Built a working assembler for the Hack programming language with the Go programming language.
- Implemented code based on system architecture and processor specifications.

Education

DePaul University, Chicago

Expected Aug 2026

Master's in Computer Science

GPA: 4.0