Kevin Geonhun Lee

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EDUCATION

Dartmouth College   September 2023 – Present
                                                                                                                                    Hanover, NH

Bachelor of Science in Computer Science, Minor in Biology
GPA:3.75
Relevant Coursework: Data Structures, Algorithms, Databases, Object Oriented Software Engineering, Artificial Intelligence, Machine Learning, Computer Systems / Operating Systems, Software Design & Implementation, Human-Computer Interaction (HCI), Biology of the Brain

PROFESSIONAL EXPERIENCE

Accounting/Software Internship at Hiossen Implant   December 2024 – January 2025
                                                                                                                                    Englewood, NJ

- Organized and verified 90% of three years' worth of unstructured journal entries, ensuring compliance ahead of an internal audit by the company's Korean headquarters.
- Developed a software system to streamline the organization and scanning of monthly journal entries, reducing manual processing time by 40%. The system integrated directly with a new Excel format for easier review.

Computer Science Teaching Assistant at the Dartmouth College   September 2024 – Present
                                                                                                                                    Hanover, NH

- Assisted in grading assignments and exams for CS10: Object-Oriented Programming in Java.
- Provided support to students during office hours, helping them understand key programming concepts such as dijkstra algorithm and graphing.

PROJECT

OMAT: A Mobile Application to Measure Movement in MoVes Protocol/ front-end development   June 2023 - July 2025
                                                                                                                                    Newark, NJ

- Collaborated with NJIT's research, enhancing real-time oculomotor movement tracking and clinical usability.
- Built a Kotlin mobile app integrated web server, raising diagnostic accuracy from 78% (manual) to 94%
- Reduced concussion evaluation time for athletes from 1 month to 1.5 weeks through timed data output and categorization; currently improving scalability with AI integration.

Real-Time Posture Tracking and Turtleneck Prevention Tool   July 2023 - March 2024

- Calibrated sensor data and defined eight posture categories, achieving 79% classification accuracy across 253 lab participants.
- Built a web interface to visualize real-time posture data from gyroscope and image inputs.
- Enabled at-home detection of neck and spine health risks with low-cost sensors.

Emergency Evacuation Guide System Using Data Transmission with Sound Frequency   September 2024 - Present

- Designed an ultrasonic acoustic communication system enabling emergency evacuation guidance when Wi-Fi and power were unavailable, tested up to 30m indoors..
- Implemented digital modulation (FSK/PSK) and signal processing, achieving 95%+ signal decoding accuracy in noisy environments.
- Built end-to-end failsafe system with <1s latency for real-time evacuation alerts.

Technical Skills

- **Skills**: Microsoft Excel, Python, Java, Kotlin, HTML, Javascript, HTML, CSS
- **Languages**: English, Korean