

Kevin Geonhun Lee

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Education

Dartmouth College , Hanover, NH Bachelor of Science in Computer Science GPA: 3.85	Sept. 2023 – Jun. 2027
Relevant Coursework: Object-Oriented Programming, Discrete Mathematics, Algorithms, Software Implementation, Cybersecurity, Machine Learning; <i>currently taking:</i> Fullstack Development, Knot Theory with Reinforcement Learning	

Experience

Software Engineer (Full-Stack) <i>The Dartmouth (Student Newspaper)</i> , Hanover, NH	Sept. 2025 – Present
<ul style="list-style-type: none">Built production React and React Three Fiber interfaces integrating generative AI analytics for Monumetric advertising data, analyzing placement effectiveness, component performance, and reader engagementDesigned backend services and REST APIs in Node.js to process large-scale ad impression and interaction data from external partners collaborating with The DartmouthWorked cross-functionally with design, business, and external vendors to ship data-driven tooling used by editors and operations staff	
Undergraduate Research Assistant — Cybersecurity Systems <i>Thayer School of Engineering at Dartmouth College</i> , Hanover, NH	Sept. 2024 – Present
<ul style="list-style-type: none">Designed a multi-layer DDoS mitigation research prototype combining real-time traffic sensors (port mirroring, sFlow) with intelligent filtering across Layer 3/4 and Layer 7 trafficModeled edge mitigation mechanisms including BGP RTBH and BGP FlowSpec policies to drop attack traffic at routers and distributed PoPs before congestion reaches protected servicesPartnered with a Dartmouth faculty lab to simulate real-world attack scenarios in controlled virtual environments (“red button” testing), evaluating ML-based detection accuracy and time-to-mitigation tradeoffs	
Software Engineering Intern <i>Hiossen Implant (U.S. division of Osstem Implant)</i> , Englewood, NJ	Jun. 2025 – Sept. 2025
<ul style="list-style-type: none">Built interactive dental lab simulations using reusable Three.js components to visualize implant procedures and workflows, reducing development effort for new lab modulesImproved an internal clinical support chatbot using retrieval-augmented generation (RAG), few-shot prompting, and structured reasoning pipelines in Python and LangChainDeveloped full-stack integrations between 3D simulation interfaces and ML-backed services, enabling clinicians to explore procedural visuals alongside AI-generated guidance	
Computer Science Teaching Assistant — CS50 <i>Dartmouth College</i>	Sept. 2024 – Present
<ul style="list-style-type: none">Supported students developing C programs in Linux-based environmentsDebugged memory management, file I/O, and socket-based networking issues	

Projects

OMAT — Oculomotor Movement Analysis Tool <i>Kotlin, Python, JavaScript</i>	Jun. 2023 – Sept. 2024
<ul style="list-style-type: none">Designed a medical imaging pipeline processing MRI/fMRI/DTI inputs via FSL (motion correction, registration, ROI analysis) and delivering results to a mobile appBuilt an Android visualization layer using WebView and JavaScript medical imaging viewers for slice navigation and overlay renderingImproved concussion screening diagnostic accuracy from 78% to 94% through automated preprocessing and feature extraction	
Smart Posture — Real-Time Sensor System <i>C, JavaScript, Three.js</i>	Jul. 2023 – Sept. 2023
<ul style="list-style-type: none">Built real-time sitting posture simulations using reusable Three.js components modeling vertical and horizontal spine inclinationClassified posture states from pressure sensors (FSRs, textile sensors), accelerometers, and gyroscopes using data from 113 student participantsDeveloped a browser-based visualization tool for real-time posture feedback and severity classification	

Technical Skills

Languages: Python, JavaScript, C, C++, Java, Kotlin
Systems / Backend: Node.js, REST APIs, Linux, TCP/IP, socket programming
Frontend / Visualization: React, React Three Fiber, Three.js
ML / Data: NumPy, scikit-learn, LangChain, RAG pipelines
Tools: Git, Docker, Bash