

KEVIN LEE

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EDUCATION

Dartmouth College

B.S. Computer Science | GPA: 3.77

Hanover, NH
Sep 2023 – Jun 2027

Relevant Coursework: Machine Learning & Statistical Analysis, Full-Stack Development, Software Design & Implementation, Algorithms, Cybersecurity (current), Discrete Math

EXPERIENCE

Software Engineering Intern

Hiossen Implant

Englewood, NJ
Jun 2025 – Sep 2025

- Built and shipped a production AI agent powered by retrieval-augmented generation, few-shot prompting, and structured reasoning chains (Python, LangChain), serving 43 end users across 4 product modules
- Raised AI response accuracy from 68% to 89% and reduced human escalations by 32% across 1,200+ monthly queries by redesigning the LLM orchestration pipeline end-to-end
- Developed full-stack integrations connecting interactive 3D interfaces (Three.js) with ML-backed inference services, owning the project from ideation to production launch

Software Engineer, Full-Stack

Dartmouth College – The Dartmouth

Hanover, NH
Sep 2025 – Present

- Built and launched a production analytics dashboard (React, TypeScript) tracking 500K+ monthly impressions across 30+ ad placements, adopted by 18 non-technical users for daily decision-making
- Designed scalable Node.js REST APIs to ingest external partner data into MongoDB, improving ad placement optimization by 14% and automating manual reporting workflows by 20%

Undergraduate Researcher – DDoS Mitigation Systems

Dartmouth College

Hanover, NH
Sep 2024 – Present

- Built multi-layer DDoS filtering prototype combining real-time traffic sensors (port mirroring, sFlow) with intelligent L3/L4 and L7 classification, blocking 83% of attack traffic in simulations
- Modeled BGP RTBH and FlowSpec edge mitigation policies to drop malicious traffic at upstream routers before reaching protected services
- Trained ML detection models across 6 red-team attack scenarios, achieving 0.91 precision, 0.87 recall, and 0.89 F1-score (research ongoing)

Research Intern – SQRL Lab

New Jersey Institute of Technology

Newark, NJ
Jun 2023 – Sep 2024

- Raised concussion screening accuracy from 78% to 94% on the OMAT diagnostic tool by building automated MRI/fMRI/DTI preprocessing pipelines (Python, FSL) for brain signal analysis related to eye movement, vision, and memory
- Built Android visualization modules (Kotlin, WebView, JavaScript) for interactive brain imaging slice navigation and overlay rendering, adopted in ongoing lab research

Teaching Assistant – CS50

Dartmouth College

Hanover, NH
Sep 2024 – Present

- Supported 200+ students in C systems programming, averaging 30+ debugging sessions per week across memory management, data structures, and socket networking

PROJECTS

GroupTrip.ai – AI-Powered Collaborative Planner

Co-Leader

Hanover, NH
Sep 2026 – Present

- Built full-stack web application from 0 to 1 with real-time collaborative dashboards, day planners, and live chat (TypeScript, Node/Express, MongoDB)
- Designed an autonomous AI agent (GPT-4o-mini) with function calling that executes structured actions from natural language chat, grounded by live application context and user preferences

Smart Posture – Real-Time Sensor System

- Built real-time posture classification system using pressure sensors, accelerometers, and gyroscopes from 113 participants, modeling spine inclination with live Three.js browser-based visualization

SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, Java, Kotlin, HTML/CSS, Bash

Frameworks & Tools: React, Node.js/Express, LangChain, Three.js, MongoDB, Docker, Git, REST APIs, Tailwind CSS

Domains: AI Agents, RAG/LLM Orchestration, DDoS Mitigation, BGP RTBH/FlowSpec, Network Security, Full-Stack Development, ML, Linux/Unix