Kien Le

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EDUCATION

Johns Hopkins University   Baltimore, Maryland
Bachelor of Science, Computer Science   May 2029
- Relevant coursework: Full-Stack Javascript, Data Structures, Intermediate Programming, Computational Reasoning, Human and Machine Intelligence Alignment.

SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, Java, C++, HTML, Dart, React, Node.js, TypeScript, Terraform.
- Tools and Technologies: GCP, AWS, Datadog, Figma, Firebase, Docker, Vercel, Supabase, Google Colab, Jupyter Notebook, Git, Flutter, IoT.
- Certifications: AWS Certified AI Practitioner, Machine Learning Specialization (DeepLearning.AI), Practical Deep Learning (fast.ai), 6.S191 Introduction to Deep Learning (MIT), CS230 Deep Learning (Stanford), Writing in the Sciences (Stanford).
- **Other Skills**: Spec-driven development, IaC, UI/UX, Collaboration, Communication, Product/Project Management

WORK EXPERIENCE

Full-stack Developer (Lead)   Baltimore, Maryland
Ventilator Education App | Johns Hopkins School of Education   October 2025 - Present
- Collaborated with a frontend engineer to deliver a grant-funded, gamified ventilator training PWA (Next.js, Tailwind CSS) under a strict timeline, facilitating frictionless installation for clinicians while implementing creative engagement strategies tailored to ICU nurse psychology.
- Adhered to rigorous HIPAA and IRB mandates by engineering a local-first data architecture, eliminating third-party cloud dependencies; facilitated compliant research data collection via a secure manual export system, ensuring zero unauthorized data egress.

Software Engineer   Baltimore, Maryland
SLUGGER | Johns Hopkins Sports Analytics Research Group (SARG)   September 2025 - Present
- Engineered interactive analytical tools and APIs for the Atlantic League of Professional Baseball (ALPB) under Dr. Anton Dahbura, processing Trackman data to enable flexible widget integration and strategic insights for players and coaches.
- Migrated legacy infrastructure to a containerized AWS ECS and Lambda architecture, establishing Docker CI/CD pipelines to optimize costs and zero-downtime releases.

PROJECTS

Full-Stack Engineer, LiveSolve | First of its kind AI tutor that gives visual feedback on   May 2025 - Present
math handwriting
- Created a full-stack, serverless application on Google Cloud Platform using React and Python (FastAPI) to power an interactive canvas and provide real-time, AI-driven, intuitive feedback for mathematical work.
- Engineered a novel multimodal AI pipeline with Gemini 2.5 Pro, bypassing OCR to visually highlight errors directly on a student's handwritten work, improving learning experience.

Full-Stack Engineer, SentiCare | AI-Powered Wellness Monitoring System   September 2025 - October 2025
- Architected and built a full-stack, event-driven platform (React, Node.js, Cloud Functions, Firestore) to process and visualize real-time activity data from a custom-trained ResNet model for activities classification (standing, walking, falling, sitting, sleeping).
- Engineered an AI analysis engine using the Firebase Gemini API to translate raw activity data into actionable insights, providing caregivers with daily wellness scores and natural-language patient summaries.

ADDITIONAL POSITIONS HELD

Open Source Contributor   Baltimore, Maryland
PDR AI | Johns Hopkins Association for Computing Machinery   September 2025 - Present
- Engineered a dual-path RAG pipeline integrating Chandra OCR (current best performance) to parse scanned documents and handwriting into Markdown, optimizing vector embeddings and enabling high-fidelity math rendering to drive a 95% reduction in missing document incidents and an 80% decrease in manual review time.