VCZO

AI & MACHINE LEARNING RESEARCHER | FULL-STACK SOFTWARE ARCHITECT

Email: contact@example.com | Portfolio: VCZO Platform | Location: Vietnam | GitHub: github.com/lecuong2512

PROFESSIONAL SUMMARY

Software Engineer and AI/ML Researcher specializing in Computer Vision, Deep Learning frameworks, and high-performance modern Full-Stack web architectures with Next.js 14, TypeScript, and Python.
Proven track record in engineering robust full-stack platforms, integrating neural network models, and strictly maintaining Software Quality Assurance, automated test suites, and scalable cloud deployments.

CORE TECHNICAL COMPETENCIES

Artificial Intelligence & ML:	PyTorch, Computer Vision, DenseNet, CNN, CAM Heatmaps, Transfer Learning, CUDA
Full-Stack Engineering:	Next.js 14 / App Router, React, TypeScript, Node.js, RESTful APIs, Three.js 3D WebGL
Database & Cloud Systems:	PostgreSQL, Prisma ORM, Supabase Cloud Storage, Row Level Security (RLS), Docker
SQA & Methodologies:	Software Quality Assurance, Selenium Automation, Git CI/CD, Agile / Scrum

EXPERIENCE & MILESTONES

AI & Deep Learning Researcher | Computer Vision Medical Project *2024 - Present*

- Designed and trained multi-label chest X-ray pathology classification architectures using PyTorch and DenseNet-121.
- Integrated Class Activation Mapping (CAM) to generate heatmaps highlighting affected tissue zones.
- Optimized inference pipelines with CUDA and automated evaluation metrics.

Full-Stack Web Developer & Architect | Digital Solutions Platform *2023 - 2024*

- Built responsive, high-performance web applications with Next.js 14, React, TypeScript, and Tailwind CSS.
- Designed relational schema with Prisma ORM and enforced multi-tenant security policies with PostgreSQL RLS.
- Integrated interactive 3D WebGL particle fields and fluid animations with Three.js.

EDUCATION & ACADEMIC ACHIEVEMENTS

Bachelor of Science in Information Technology & Software Engineering *2021 - 2025*

- Deep coursework in Artificial Intelligence, Computer Vision, Algorithms, Database Systems, and SQA.
- Active research contributor in applied machine learning and modern web performance optimization.

KEY HIGHLIGHT PROJECTS

1. CheXNet Chest X-Ray AI Diagnosis: Multi-label deep neural network for 14 pulmonary pathologies in PyTorch.

2. E-Healthcare Telemedicine Portal: Digital medical booking and health records platform using Next.js & PostgreSQL.

3. VCZO 3D Interactive Portfolio Platform: Production showcase platform featuring Three.js, RLS security, and bilingual UI.