

Steven Nguyen

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<https://stevennguyenportfolio.com>

EDUCATION

Louisiana State University (LSU), Baton Rouge, Louisiana

Bachelor of Science in Computer Science (Software Engineering)

TECHNICAL SKILLS

- Programming Languages: Java, Python, JavaScript, TypeScript, C#, C++, SQL, HTML5
- Frontend: React, [Next.js](#), Tailwind CSS
- Backend: Supabase, PostgreSQL, Flask, REST APIs
- AI / Machine Learning: PyTorch, ConvNeXt, CNNs, Image Classification, Data Augmentation
- Technology/Frameworks: Visual Studio Code, Supabase, Vercel, Netlify, Groq Cloud, RESTful APIs, .NET, Eclipse, Arduino IDE, Unity Engine (2D), [p5.js](#), GitHub, PuTTY, Flask

CERTIFICATIONS

Generative AI with Diffusion Models | *NVIDIA*

April 2026

- Self-paced course exploring denoising diffusion models, with U-Nets and CLIP neural networks to create high quality visuals

PROJECTS

Business Website for Mia Nails Salon | <https://mianailsbr.com/>

July 2026

- [Next.js](#), React, TypeScript, Tailwind CSS, Vercel
- Designed and developed a responsive business website for a local nail salon to showcase services, pricing, and contact information
- Collaborated and met with client to gather requirements and deliver requested design revisions
- Configured custom domain deployment and production using Vercel

Vigiloo - Educational Website | *Senior Capstone*

May 2026

- [Next.js](#), React, TypeScript, Tailwind CSS, Supabase, PostgreSQL, Vercel, Groq Cloud AI, REST APIs
- Developed a full-stack internet safety educational platform using [Next.js](#), React, TypeScript, PostgreSQL, and Supabase.
- Integrated Groq AI and external REST APIs to deliver AI-assisted learning and real time cybersecurity threat information
- Designed to be responsive and accessible for desktop and mobile devices

AI Animal + Species Identifier | *Academic Project*

Dec 2025

- Developed a multimodal deep learning system for fine-grained animal species classification across 854 classes using limited labeled data (50 images per class)
- Fine-tuned a ConvNeXt-Nano convolutional neural network (CNN) with 15.6M parameters pretrained on ImageNet-12k and ImageNet-1k using PyTorch and transfer learning
- Deployed the trained model in a web-based application with image upload, top-5 predictions, confidence scores, and species information via Wikipedia API

Neuron Simulator | *Academic Project*

May 2024

- Python-based simulation of a Leaky Integrate and Fire (LIF) neuron and an alpha synapse model
- Simulated neuronal behavior to analyze membrane potential changes and neural firing patterns