

Nghia M. Vu

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TECHNICAL SKILLS

Programming: Python, Javascript, TypeScript, C++, C#, SQL, HTML / CSS, Kotlin

Web/Frameworks: React, [Next.js](#), Flask, React Native, Expo

Database: MySQL, PostgreSQL, AsyncStorage, Firebase, Microsoft SQL Server

AI/ML: Google Gemini, Vapi AI, OpenAI API, Cerebras, YOLO, OpenCV

Tools: Github, Azure DevOps, Sentry, Sanity, Figma

EDUCATION

Arkansas State University

Jonesboro, Arkansas

B.S in Computer Science

July 2026

- o **GPA:** 3.94/4.00, *Chancellor's List*
- o **Related Coursework:** Mobile Development, Data Structures & Algorithms, Computer Organization & Programming, Unix System Programming, Object-Oriented Programming, Database Systems

EXPERIENCE

Nucor Corporation

Blytheville, Arkansas

Software Development Engineering Intern

May 2024– Aug 2024

- Enhanced backend system efficiency by diagnosing and resolving database bottlenecks in **Microsoft SQL Server**, reducing data retrieval delay from **1250ms** to **700ms**
- Implemented and maintained **CI/CD** pipelines in **Azure DevOps**, automate the build and deployment process to increase deployment reliability
- Developed and maintained internal tools using **PHP** and **C#**, collaborating directly with users to resolve over **20%** weekly backlog tickets

PROJECTS

Fovea | [Next.js](#), React, [WebGazer.js](#), Claude AI, Tailwind CSS | **HackMIT 2025**

- Implemented an AI-powered **eye-tracking** system using **Web Gazer** to deal with attention erosion by calculating real-time focus metrics from user gaze data
- Integrated **Claude** LLM to transform analyzed gaze patterns into personalized, actionable feedback reports, help users improve concentration habits

FoodPrint | [React Native](#), Python, Flask, YOLO, Cerebras API, Supabase | **PennApps XXVI Hackathon**

- Developed a mobile app using **React Native** that utilizes a live camera feed with a **YOLO** model to identify food items and an LLM (**Cerebras**) to estimate their carbon footprint in real-time
- Implemented full-stack features including a **Flask** backend to serve computer vision model, **Supabase** for user authentication, while optimizing **React Native** front-end for a seamless user experience

PrepBot | [Next.js](#), Firebase, Vapi AI, Tailwind CSS, Google Gemini AI, Typescript.

- Built a full-stack **AI interview** preparation platform enabling interactive, **voice-based** mock interviews.
- Designed a mobile-friendly UI with real-time transcripts and integrated AI for performance feedback

Personal Portfolio | [Three.js](#), React Three Fiber, GSAP, Tailwind CSS, Vite

- Developed an interactive **3D** portfolio showcasing software projects with optimized rendering for performance.

ACTIVITIES AND LEADERSHIP

Arkansas State University College of Mathematics and Computer Science

Jonesboro, Arkansas

Teaching Assistant

Sep 2024 – Present

- Tutored students and led lab sessions for OOP and Structure Programming class in **C++** taken by **100+ students**
- Improved comprehension and class performance through clear explanations and collaborative support, contributing to **10% average increase** in exam scores