

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 - Upcoming Master Degree in Computer Science

Expected Graduation (B.S), 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

- Developed and maintained internal tools in **PHP** and **C#**, integrating with **Microsoft SQL Server** to improve system database efficiency.
- Implemented **CI/CD pipelines in Azure DevOps**, boosting deployment reliability and team productivity.
- Diagnosed and resolved backend and database issues, improving system stability and reducing rollout delays.
- Collaborated with cross-functional teams to address technical debt and maintain sprint targets.

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.

PennyPal - React Native, Expo, Figma, Javascript, AsyncStorage

- Built a cross-platform mobile expense tracker featuring tiered categories, custom animations, and interactive charts. Used React Context for persistent state and designed smooth onboarding to improve engagement.

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++, improving comprehension and class performance through clear explanations and collaborative support for the professor