

NAM KHANH NGUYEN

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FEATURED PROJECTS

River Drought Visualization Tool

2025

- Created a national-scale drought mapping tool using ArcGIS Online and US Drought Monitor datasets, visualizing DSCI trends across counties and major U.S. rivers.
- Designed for public awareness, enabling regional drought comparison and exploration of climate impact on river systems.

Global Earthquake Dashboard

2024

- Rendered and animated 140,000+ global earthquake data points using Deck.GL, MapLibre, and D3.js for real-time interaction and high-performance WebGL mapping.

U.S. Education & Healthcare Disparities Visualizer

2024

- Built an interactive D3.js map to visualize U.S. county-level healthcare access by overlaying uninsured rates, income, poverty, and education levels.

AirMigo (Cal Hacks 11.0)

2024

- Developed a real-time air quality monitoring app for respiratory patients using React, Node.js, SingleStore DB, and Groq's Llama 3 API for AI-personalized health alerts.
- Integrated multi-source APIs (AQI, traffic, pollen) with low-latency data pipelines to generate geo-personalized notifications and live map visualizations.

EXPERIENCE

Full Stack Developer Intern

Jan 2024 - Jun 2024

SiGlaz Software, Ho Chi Minh City, Viet Nam

- Designed and developed responsive, accessible UI with Figma, HTML, CSS, JavaScript, jQuery, and Razor Pages to support client website modernization.
- Built a dynamic, interactive Catalogue Flipbook for enhanced PDF viewing, improving user engagement and navigation.
- Engineered backend data models with C# and ASP.NET to streamline content updates and ensure scalable data handling.

Donor Database & Web Development Intern

Aug 2022 - Dec 2022

Guiding Lights Mentoring, Cincinnati, OH

- Maintained and enhanced a content-driven website, implementing iterative UI updates based on stakeholder feedback.
- Managed donor data and generated personalized outreach via DonorSnap CRM, supporting nonprofit engagement goals.
- Developed a file-sharing and board portal using Velo by Wix with reactive UI components, form validation, and third-party service integration.

Web Development Intern

Jan 2022 - Jun 2022

EyeQ Tech, Remote, Viet Nam

- Independently delivered an internal SCRUM tool with a clean, responsive frontend (React, Tailwind) and a scalable backend (NestJS, MongoDB Cloud).
- Deployed a mini web conferencing app (Render, Express, Socket.io, PeerJS), integrating real-time communication and lightweight serverless architecture.

EDUCATION

University of Cincinnati, Bachelor of Science in Computer Science

Expected Graduation: May 2025

- Relevant courses: Natural Language Processing, Intelligent Systems, Applied AI and ML, Probabilistic Models, Data Structures, Database Theory, Automata, Computer Networks, Computing Systems.

ACTIVITIES

2nd Place at the Graph UC Hackathon

Oct 2023 – Oct 2023

- Engineered a SubGraph, letting developers to use GraphQL to query complex data from a blockchain up to 1000 times faster than manual query. Guided team of 4 students.
- Role: Team Lead, Project Management.

SKILLS

- Frontend & Design: NextJS, React, Vue, Svelte, Angular, HTML, CSS, JavaScript, jQuery, Figma, D3.js, WebGL.
- Backend & Tools: Node, Nest JS, MongoDB, Firebase, Socket.io, Express, PostgreSQL, Python, C#, ASP.NET Core, Git, Puppeteer, Vercel, Render.io, ArcGIS Online, SEO.