

Nathan Nguyen

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EDUCATION

University of Cincinnati

Bachelor of Science in Computer Science

Cincinnati, OH

Expected May 2026

- GPA: 3.951
- Relevant Coursework: Database Design, Design and Analysis of Algorithms, Programming Languages, Operating Systems, Linear Algebra

EXPERIENCE

Software Engineering Intern

May 2024 – Aug 2024

84.51°

Chicago, IL

- Leveraged **Angular.js** and **Spring Boot** to direct the development of the "Bring Your Own Audience" feature, enabling advertisers to select target households and enhancing user targeting precision.
- Engineered and deployed multiple **RESTful APIs** to facilitate seamless interaction between front-end capabilities and **MongoDB/CosmosDB** databases and **Azure Pipelines**.
- Optimized our **MongoDB** databases using **Terraform**, by implementing load balancing and scaling up backend instances to accommodate an expected 650% increase in user traffic, increasing our uptime by 60%.

Software Engineering Intern

Jan 2023 – May 2023, Aug 2023 - Dec 2023

84.51°

Cincinnati, OH

- Led the development of a composable internal Kubernetes Orchestration API service, utilized by 8 teams, leveraging **FastAPI** to deploy **Docker** images in **Kubernetes & Helm**, streamlining application deployment by 20%.
- Developed an Internal Data Delivery Service utilizing **FastAPI** and **Terraform** to facilitate credentialed access to **Azure Storage Blobs** containing parquet and CSV files, enabling users to retrieve specific data through a URL.

Undergraduate Student Researcher

May 2022 – Aug 2022

University of Cincinnati

Cincinnati, OH

- Constructed a **CI/CD** pipeline to automate the NLP parsing of feature descriptions using **Open-Sesame**.
- Developed over 30 comprehensive automated test cases using **Selenium** and **Cypress** to ensure accurate data aggregation and error-free functionality of an internal server and website.

COMMUNITY & LEADERSHIP

President

Aug 2021 – Present

UC CubeCats

Cincinnati, OH

- Spearheaded the creation of CATiSE, a freshman-specific program enabling students to learn technical, leadership, and systems engineering skills required for our organization's flagship Satellite, LEOPARD-Sat, and internships.
- Revamped the club website by utilizing **React.js**, modernizing the design, and implementing responsiveness, resulting in heightened student engagement and increased interest from potential collaborating companies.

PROJECTS

LEOPARD-Sat | C++, C, Proteus, Schematic Design, Systems Engineering, Github, Git

Jun 2022 – Present

- Engineered crucial data collection, storage, and transmission functionalities for a NASA-sponsored satellite using **C/C++** and **Microchip Studio**, ensuring optimal performance aligned with the satellite's operational modes.
- Utilized **Proteus** as a simulation tool to develop a schematic in which the microcontroller communicated with various slave devices using I2C, validating the code's functionality and logic.

YelpCamp | HTML, CSS, JavaScript, Node.js, Express, MongoDB

Jan 2023 – Present

- Designed and built 'YelpCamp,' a user-centric campsite review platform using **Express.js**, enabling seamless features such as user authentication, real-time review submissions, and intuitive editing capabilities.
- Architected and implemented a robust **MongoDB** infrastructure, optimizing data storage and retrieval for user profiles, campsite details, and dynamic reviews/comments.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL, Java, C#, HTML/CSS, YAML, MatLab, Bash, Haskell, Prolog, Golang

Technologies: Azure, Angular, FastAPI, Git, Spring Boot, Kubernetes, MongoDB, React.js, Terraform, Helm, JIRA

Miscellaneous: Soldering, Schematic Design, Vietnamese fluency