NAM HAI NGUYEN

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OVERVIEW

A rising junior in Computer Science with strong desire to learn new things, high tenacity, and dedication to small details; seeking an internship position in Software Engineering to learn and acquire hands-on skills.

EDUCATION

Michigan State University, College of Engineering, Honors College   **East Lansing, Michigan**
Bachelor of Science, Computer Science   Sep 2022 - Present
Related Coursework: Data Structures and Algorithms, Object-Oriented Software Development, Database Systems, Computer Organization and Architecture
GPA: 4.0/4.0

TECHNICAL SKILLS

Beginner: socket.io, PyTorch, React Native, C#
Intermediate: SQL, RESTful API, Firebase, Zustand, Reactflow.js
Advanced: Python, C++, TypeScript, MERN stack, HTML/CSS

TECHNICAL EXPERIENCE

Michigan State University   GitHub   **East Lansing, Michigan**
Professor Assistant   Sep 2022 - Present
- Collaborated with Prof. Zhichao Cao to refine a NELoRa model deployed in sensor system for farmers by experimenting it with a higher Spreading Factor (SF) of 11 and 12, aiming to increase communication range and extend each node's battery life by 272%
- Utilized **Python** to retrain dual-DNN model used in decoding chirp symbols with SF ranging from 7 to 10 to examine SenSys '21 paper and use results as benchmarks for experimenting higher SF

Halloween-Spartan Themed Action Sudoku   GitHub   **East Lansing, Michigan**
CSE335 – Object Oriented Software Development   Aug – Sep 2023
- Led a team of 5 students to devise a novel and engaging version of famous puzzle Sudoku, taking full advantage of **C++** for backend and cross-platform GUI library **wxWidgets** for frontend
- Slashed development time by **20%** by maintaining a clear communication and seamless collaboration through **Git** and **GitLab**
- Adhered to **object-oriented design principles** of Abstraction, Encapsulation, Inheritance, and Polymorphism, contributing to efficient launch of final program

SpartaHack 8: ReTiMe   GitHub   **East Lansing, Michigan**
Developer   Jan 2023
- Performed full-stack engineer on Realtime Messaging Web App (ReTiMe) in team of 3 within 48-hour duration of MSU's annual Hackathon, allowing **50** users to access simultaneously
- Developed a space-themed UI using **HTML/CSS/JavaScript** for a visually appealing experience
- Facilitated real-time messaging with **Express.js** and **socket.io** for fast and lively users' interaction
- Implemented secure authentication and convenient users' data storage leveraging **Google Firebase**

AWARDS

Michigan State University
Dean's List for Spring, Fall Semesters of 2022, 2023