NAM HAI NGUYEN

East Lansing, MI | nguyenhainam8668@gmail.com | (517) 980-4310 https://bit.ly/portfolio-euclid | https://www.linkedin.com/in/nam-nguyen-95452a252/

EDUCATION

Michigan State University, College of Engineering, Honors College

East Lansing, Michigan

Bachelor of Science, Computer Science

Sep 2022 - Present

Coursework: Data Structures and Algorithms, Object-Oriented Software Development, Database Systems,

Computer Organization and Architecture

GPA: 4.0/4.0

Awards: Dean's List for Spring, Fall Semesters of 2022, 2023

TECHNICAL SKILLS

Beginner: socket.io, PyTorch, React Native, C#

Intermediate: SQL, RESTful API, Firebase, Zustand, axios, React Flow, Postman

Advanced: Python, C++, TypeScript, MERN stack, HTML/CSS

TECHNICAL EXPERIENCE

CourseFlow
Personal Project

GitHub
Dec 2023 – Feb 2024

• Devised a Full-stack Web Application that helps college students map out courses in form of flow chart, leveraging **Topological Sorting Algorithm**

- Utilized React and React Flow with TypeScript to create interactive and captivating node-based web design
- Employed Vite development server for client side, significantly accelerating development process by up to 100% compared to traditional setups.
- Implemented 12 API endpoints to support CRUD operations and ensured seamless interactions between frontend and backend by testing with **Postman**
- Enhanced security by applying **bcrypt** to hash user passwords, safeguarding users' sensitive information from potential breaches

Michigan State University

Professor Assistant

GitHub East Lansing, Michigan

Sep 2022 - Present

- Cooperated with Prof. Zhichao Cao to refine NELoRa model by experimenting 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 for denoising and decoding chirp symbols, leveraging results as benchmarks for further research

Halloween-Spartan Themed Action Sudoku

<u>GitHub</u>

East Lansing, Michigan Aug – Sep 2023

CSE335 – Object Oriented Software Development

- Organized team of 5 students to implement a novel engaging version of Sudoku, taking full advantage of C++ for backend and cross-platform 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, 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