Khanh Nguyen

859-786-2761 | nguyenk8@mymail.nku.edu | github.com/khanh

EDUCATION

Northern Kentucky University Highland Heights, KY
Bachelor of Science in Computer Science *May 2025*
- GPA: 3.9 / 4.0
- Relevant Coursework: Object-Oriented Programming, Probability and Statistics I, Data Wrangling, Data Structures and Algorithms, Discrete Mathematics, Computer System, Database Programming, Operating System

EXPERIENCE

Software Development Intern May 2024 – Present
Medpace *Cincinnati, OH*
- Maintained two production applications by implementing new features and fixing bugs, completing over 26+ tasks to ensure optimal performance and reliability for daily internal use.
- Collaborated closely with users and business stakeholders to gather requirements, providing efficient solutions aligned with business goals.
- Working on a developing application, implementing features from design specifications and adapting to evolving user and business requirements.
- Leveraged Microsoft technologies including C#, .NET Core, SQL Server, Angular, and Azure to deliver high-quality, scalable solutions within an Agile environment.

Undergraduate Research Assistant May 2022 – July 2022
Northern Kentucky University *Highland Heights, KY*
- Built Flappy Bird game from scratch using Java and JavaFX.
- Conducted in-depth research on Machine Learning, exploring Reinforcement Algorithms concepts such as NEAT (NeuroEvolution of Augmenting Topologies) and Q-learning.
- Explored the practical implementation of NEAT within the game training process, demonstrating a hands-on approach to applying theoretical knowledge.

PROJECTS

TechCare Coaching | *React, MaterialUI, Flask, Netlify* July 2023 - Present
* Collaborating as a developer in a long-term project to create a web-based mentorship application for TechCare Coaching
* Tailoring the platform to connect mentors and mentees based on specific needs, with a particular focus on empowering Vietnamese-speaking Computer Science students to enhances their competitive advantages.

EmoTube | *Next.js, NextAuth, FastAPI, HumeAI, Youtube API* Dec. 2023
* Employed HumeAI to perform a nuanced analysis of emotional content within Youtube video comments.
* Provided valuable insights into the collective sentiment expressed by viewers.
* Enhanced user experience by implementing Google account authentication for seamless login with NextAuth in Next.js.

Tic Tac Toe | *Java, Socket* Oct. 2023
* Implemented a real-time Tic Tac Toe game in Java utilizing socket programming, enabling individual players to engage with the server while the server manages concurrent gameplay.

QuikChat | *React, Express.js, Node.js, MongoDB, TailwindCSS, Redux* Nov. 2022 - Jan. 2023
* Engineered an immersive web chat platform with advanced features that empowered users to register, log in, find contacts by email, engage in individual and group chats, create and manage group conversations, and modify personal details.

* Developed secure API endpoints with JWT authentication, leveraging Node.js, Express, and MongoDB while adhering to the MVC pattern for a structured architecture.
* Integrated Socket.io for real-time messaging and notifications, ensuring instant and fluid communication.
* Implemented Redux for efficient state management, enabling immediate updates and seamless real-time interactions.

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C/C++, TypeScript, R, SQL, C
Technologies: React, Redux, Express.js, MySQL, MongoDB, Angular, Azure