Krysta Nguyen

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https://uyennguyen0901-github-io.onrender.com/

EDUCATION

B.S in Computer Science
University of Minnesota Twin Cities • Minneapolis, MN • 2024

PROFESSIONAL EXPERIENCE

Team Member Normandale's STEM Club   **Oct 2020 - Apr 2021**
• Engineered a lightweight microcontroller-based sensor suite for a quadcopter using **C** as part of a six-member team tasked with campus exploration.
• Utilized **Python** to establish real-time communication between devices and the sensor module for data collection.
• Produced and edited promotional and educational videos, showcasing the team's technical prowess, progress, and achievements, increasing audience engagement and learning.

PROJECTS

Foxipe | https://project-1-airfox.onrender.com/   **Jan 2024 - Feb 2024**
• Developed "Foxipe," a recipe sharing platform, handling full-stack development from responsive **UI/UX** design to backend functionalities.
• Integrated **Azure Blob Storage** for image handling, crafted an advanced search with extensive filters (rating, nutrients), and implemented dynamic user reviews with reply functionality.
• Spearheaded **CRUD** operations for recipes and reviews, ensuring a seamless, responsive design across devices.
• Utilized: **HTML**, **CSS**, **JavaScript**, **Python**, **Postgres**, **Render**, **Azure Blob Storage**, **Reportlab**.

Animation in Game Projects | https://minhuyen.fun   **Sep 2023 - Dec 2023**
• Engineered a gaming application using **Java**(**Processing**), **C**(**Unity**), and **Blender** for gaming platforms.
• Enhanced code optimization to deliver a seamless and user-friendly gaming experience.

Portfolio | https://uyennguyen0901-github-io.onrender.com/   **Jul 2023 -Sep 2023**
• Constructed a portfolio page using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**.
• Acquired and mastered essential skills required to execute the portfolio project by studying the relevant technologies and implementing them, resulting in a fully functional website.
• Demonstrated proficiency with web frameworks such as **React**, **Node JS**, and **Express**. Led the end-to-end development of a portfolio, including site architecture, theming, custom coding, functionality implementation, content management, and adherence to **SEO** best practices.

Drone Simulation | https://github.com/uyennguyen0901/Drone_Simulation   **Jan 2023 - May 2023**
• Collaborated with a team to construct an intricate representation of drone dynamics for a class assignment.
• Programmed a Drone Simulation in **C++** to demonstrate the dynamics and mechanics of drone movements within a virtual environment.
• Developed a realistic drone simulation by applying advanced programming techniques and incorporating real-world physics, delivering an authentic drone operation experience.

SKILLS

Languages: HTML/CSS, JavaScript, Python, Java, SQL, C, C++, TypeScript
Frameworks: React, NodeJS, Express, Bootstrap, Flask
Database: MySQL, PostgreSQL, MongoDB Atlas, NoSQL, Azure
Libraries: PureCSS, Reportlab