Kenny Ngo

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Education

University of Michigan — Ann Arbor, MI
Bachelor of Science in Computer Science, Data Science, and Applied Mathematical Sciences — *May 2023*

Technical Skills

Languages: Python, C/C++, JavaScript, TypeScript, HTML/CSS, Java, SQL (Oracle, SQLite), R, Swift
Frameworks & Tools: Git, ReactJS, NodeJS, Flask, AWS, GCP, Figma, LaTeX, VSCode, GitHub
Languages: Native in English; conversational level in Vietnamese; beginner in Korean

Projects

StatTrack | *Python, Swift, Figma* — Aug 2022 – Dec 2022
- Collaborated on a team of developers to gather and assessed user requirements, and formulated an algorithm for detecting basketball shot attempts and determining if a shot was made or missed
- Devised and developed the UI, ensuring a visually appealing and user-friendly interface
- Aided in usage of machine learning techniques such as TensorFlow Lite to train a model for detecting and analyzing shots and possession in basketball games

MapReduce Engine | *Python* — Mar 2022
- Designed a Hadoop-like MapReduce local server with manager and worker nodes for map-reduce operations over large input files with a distributed file system and fault tolerance to catch worker node failures with 90% accuracy

Facebook Clone | *ReactJS, HTML, CSS, Python, Flask, SQL* — Feb 2022 – Mar 2022
- Utilized the ReactJS framework to build client-side dynamic pages, Flask Python to integrate backend server-side dynamic pages with frontend, and SQL to structure user data with relational databases
- Combined multithreaded sockets and server sent events to create a live chat room application
- Implemented pagination for home page with posts and chat room messages to produce an infinite scroll effect

Discord Bot | *JavaScript* — Nov 2021 – Dec 2021
- Programmed a personalized bot with NodeJS for a private server to enhance and streamline user experience
- Researched several APIs and examined source code to extract and display desired data given user's query
- Developed a music player with features such as stopping, shuffling, queuing, playing from URL, and search query

Professional Experience

Tutor — Sep 2019 – Present
University of Michigan — *Ann Arbor, MI*
- Tutored 6 students per semester in introductory computer science, math, and stats courses for 4 hours per week, scheduling weekly meetings to review material taught in lectures, guiding students through projects and supplemental problems by clarifying questions
- Assisted 3 students debugging code for 2 hours a week, while evaluating and strengthening coding skills
- Structured lesson plans to adapt to students' current skill level to encourage proactive learning

Extracurricular

Vietnamese Student Association (VSA) — Aug 2019 – Present
- Collaborated with 10 students to program stage lights for VSA's annual cultural show, supporting 15 performances
- Mentored 3 incoming VSA members in mentor/mentee program to ease transition by fostering community
- Engaged in personal growth and development by attending leadership conferences across the Midwest and Southwest United States and interacting with a diverse group of students from participating universities' VSAs
- Advised underclassmen students in same major on course selection and scheduling, offering recommendations and guidance on success in upper-level classes

Michigan Muscle Club — Sep 2019 – Mar. 2020 & Jul 2022 – Present
- Volunteered as a personal trainer and gym buddy, providing fitness guidance and support to incoming gym goers
- Applied knowledge in exercise science and nutrition to customize a personalized workout routines for peers
- Promoted healthy lifestyles and physical wellness among college students through active participation consistently