

Victoria Nguyen

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SUMMARY

Aspiring frontend software engineer with a strong foundation in full-stack development and a unique background in clinical research. Skilled in creating intuitive, user-focused applications using React and Python, with a focus on enhancing user experience and workflow efficiency. Successfully developed tools that streamline processes and improve data-driven decision-making. Eager to leverage technical expertise and innovative problem-solving skills to contribute to dynamic software development teams.

TECHNICAL SKILLS

- **Languages:** Python, SQL (beginner), Bash/CLI, JavaScript, TypeScript
- **Frameworks:** Tkinter, Pandas, Matplotlib (basic), React, Node.js, Express, MongoDB, Expo, React Native
- **Skills:** GUI development, multithreading, file I/O, object-oriented programming, data analysis, version control, SQLite, Rest APIs
- **Tools:** VS Code, Jupyter Notebook, Git/GitHub, Notion
- **Core Disciplines:** Software Engineering, Medicine

Projects

Blossom Care Journal | <https://github.com/vicngan/my-care-journal->

Oct 2025 - Oct 2025

- A GUI-based mental health journaling app with autosave, customizable prompts, and persistent data storage. Designed around a soft, calming visual theme so users feel safe to reflect.
 - * Implemented multithreading so autosave runs smoothly without freezing the UI.
 - * Used JSON-based storage for organized entries, mood tracking, and user analytics.
 - * Designed the interface with user comfort in mind, emphasizing gentle colors and clarity.

Heartline Smart Record | https://github.com/vicngan/smart_record.py

Oct 2025 - Present

- A patient vitals tracking system that simulates an EMR for clinical data management, inspired by real inpatient workflows I've seen in urgent care and hospital units.
 - * Built vitals tracking with data validation and abnormal vital detection.
 - * Automated logging to CSV/JSON for easy review and analysis.
 - * Modeled clinical flows with object-oriented design; expanding with role-based dashboards for team members.

Heartline Care Companion | https://github.com/vicngan/heartline_companion.py

Nov 2025 - Present

- Heartline is a gentle, emotionally-intelligent mobile care companion designed for transplant and post-operative patients — inspired directly by real-world workflows at Michigan Medicine. It blends soft check-ins with practical health logistics so patients stay supported, seen, and connected to their care teams.
- Mood, energy, & symptom check-ins, Pill, hydration, and activity reminders, Bluetooth vitals syncing (HR, SpO2, temp) with structured symptom notes that flow into a secure clinician dashboard, Escalation intelligence: when concerning patterns appear, Heartline auto-notifies caregivers via Twilio SMS with a warm but clear handoff script, Adaptive recovery guidance that shifts based on energy dips, sleep rhythms, and pain trends, No-shame return path so patients who miss a few days are welcomed back without guilt

WORK EXPERIENCE

Michigan Medicine University Hospital 5C

2025 - Present

Nurse Aide II

Ann Arbor, MI

- Monitored patient vitals and maintained over 30+ central lines/drains, effectively preventing sepsis and other blood infections while enhancing workflow efficiency and safety protocols, resulting in a 20% reduction in fall-related injuries.
- Documented patient data electronically using EPIC, supporting clinical decision-making and ensuring accurate communication among healthcare teams.

Michigan Medicine

2025 - Present

Research Assistant

Ann Arbor, MI

- Analyzed over 30 infants' video recordings for the Nipple Coding Study using Observer XT, achieving greater than 60% reliability in identifying and assessing infant feeding behaviors.
- Collaborated on the ABC Growing Kids project to research how eating behaviors in infancy influence children's eating patterns through adolescence.

EMU Center for Health Disparities

2024 - 2025

Research Assistant

Ann Arbor, MI

- Undergraduate Research Opportunity Program; Studies in Asian American Health
- Contributed in the data collection using surveys and data analysis using Excel; Initiated in the writing of 2+ research summaries and articles about community health and data representation; Created and translated 10+ community event flyers using Canva and collaborate with CMS Navigator initiatives; Presented project on Firearm Ownership in the 2025 Spring Symposium

Trinity Health Domino's Farm Urgent Care

2024 - 2025

Medical Assistant

Ann Arbor, MI

- Streamlined workflow and productivity by 30% and decreased averaged patient waiting time by 15%; Supported clinical and lab tasks, enabling accurate data capture for operational and research purposes
- Perform clinical procedures and administrative tasks; Assist physicians in laboratory, clinical, and administrative works; Collaborating with the team of nurses, PCT, and other specialties physicians to provide optimal and quality care for patients