Shelby Myrman

760-889-0459 | myrmanshelby@gmail.com | portfolio site | github.com/myrmanshelby

EDUCATION

University of California, San Diego — San Diego, CA
Master of Science in Computer Science (HCI emphasis) — GPA: 3.94 — Dec. 2025 (Expected)

University of California, Santa Barbara) — Santa Barbara, CA
Bachelor of Arts in Statistical Sciences and Economics — GPA: 3.92 — Jun. 2020
- Honors: *summa cum laude*, Academic Excellence Award, Dean's Honors (9 quarters)

TECHNICAL SKILLS

Languages: C, C++, CSS, HTML, Java, JavaScript, Python, R, SAS, SQL, Swift, TypeScript
Frameworks: React, Vue.js, Node.js, Flask, FastAPI, SwiftUI, Docker, Firebase
Tools: Git, GitHub, Figma, Balsamiq, PostgreSQL, InfluxDB, TimescaleDB, Ubuntu/Linux, CI/CD, Excel
Libraries: NumPy, pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch

EXPERIENCE

Pure Storage — Jun. 2025 – Sept. 2025
Software Engineering Intern — Santa Clara, CA
- Benchmarked four time-series databases for speed, CPU usage, and memory consumption in local and FlashArray environments
- Presented results to leadership and collaborated to select the most performant, resource-efficient database
- Integrated the chosen TSDB into the existing system, improving resource usage for the subsystem up to 50% for large data volumes

University of California, San Diego — Mar. 2025 – Jun. 2025
Software Engineering Teaching Assistant — San Diego, CA
- Mentored 7 project teams (~70 students) in building full-stack web applications from design to deployment
- Conducted regular code reviews to improve quality, maintainability, and adherence to best practices
- Advised on Agile workflows, CI/CD pipelines, and effective collaboration to improve productivity

Ovation Ventures — Sept. 2022 – Apr. 2024
UX Writer — San Diego, CA
- Enhanced app usability and contributed to product design by building research-backed user personas, use case diagrams, and wireframes
- Conducted weekly QA testing, creating detailed reports for the engineering team to drive improvements and ensure a seamless user experience
- Created and refined 30+ financial advice modules, aligning conversational flow with user needs

PROJECTS

Digital Stethoscope | *Front-end Engineer, UX Designer* — Spring 2025
- Collaborated with backend and hardware teams for a custom digital stethoscope to ensure seamless data flow and real-time waveform visualization
- Designed and implemented 30+ user flows and screens, establishing a cohesive design system and brand kit
- Recognized for exceptional UX design and approached for potential commercialization

Recipe Selector | *Machine Learning Engineer* — Fall 2024
- Developed hybrid recommendation models combining content-based filtering with collaborative filtering (SVD) and logistic regression to personalize recipe suggestions.
- Evaluated model performance against popularity-based, similarity-based, and standalone collaborative filtering baselines, achieving higher accuracy and precision with the logistic regression hybrid.

CS Student Dashboard | *Team Lead, Full-stack Engineer* — Fall 2024
- Managed product roadmap and Agile development lifecycle for a team of 7, launching the product in 6 weeks
- Engineered end-to-end data flow for to-do and calendar features via Flask and Firebases
- Created a frontend design system and implemented the interface using HTML, CSS, and JavaScript