

Pronita Ghimire

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TECHNICAL PROFILE

Computer Science and Mathematics student building full-stack and mobile applications with Python, JavaScript, TypeScript, React Native, Expo, FastAPI, and Express. Strong foundation in object-oriented programming, mathematics, problem solving, research communication, and campus leadership. Interested in software engineering, product-minded development, collaborative problem solving, and learning from engineers while contributing to real user-facing tools.

EDUCATION

University of Arkansas at Monticello - B.S. Computer Science and Mathematics Expected 2029

Relevant coursework: Programming Logic & Design, Object-Oriented Programming, Calculus I-II, Linear Algebra, Research & Critical Thinking; upcoming Database Management Systems, PC Hardware/Software Maintenance, and Calculus III.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL fundamentals

Frameworks & Tools: React Native, Expo, FastAPI, Express, React Native Web, AsyncStorage, Expo Location, Expo Print/Sharing, Git, GitHub, VS Code

Core Strengths: mobile UI, API integration, front-end implementation, backend prototypes, debugging, technical writing, teamwork, public speaking

SELECTED PROJECTS

Materna - Maternal Health Monitoring Platform

Expo SDK 54, React Native, JavaScript, TypeScript, Express, AsyncStorage, Expo Location, Expo Print/Sharing, React Native Maps

- Won **3rd Place at the UALR AI Hackathon** with a team prototype combining a physical bracelet, custom-trained AI model, mobile app, shared reports, emergency flows, and linked dashboard.
- Built vitals, profile intake, symptom notes, hospital navigation, emergency activation, PDF reports, and polished patient/doctor web dashboards.

Yatri - Nepal Travel Companion Mobile App

TypeScript, React Native, Expo, Expo Vector Icons, React Native Web, local storage session prototype

- Built a mobile app for travelers with Nepali phrase guidance, gesture tips, fair-price reference cards, festival/culture content, and offline-guide sections.
- Designed polished login/sign-up screens, remember-me behavior for web preview, custom logo assets, and reusable theme styling.

Leela - Interactive Storytelling and Cultural Learning App

React, TypeScript, Vercel, responsive UI, interactive learning flows

- Built an interactive learning app with colorful story pages, guided question flows, and approachable spiritual and cultural education content for a broad audience.

App Swipe - Movie Discovery App

Python, FastAPI, TMDB API, JavaScript, React Native, Expo, Expo Haptics, Expo Linear Gradient

- Developed a Tinder-style discovery flow where users swipe or tap to like/pass movies, undo the latest swipe, and save liked movies.
- Created a Python FastAPI backend that connects to the TMDB API and supports fallback demo content when the API is offline.

Interactive Scrapbook Portfolio

HTML, CSS, JavaScript, responsive UI, DOM interactions, GitHub

- Built an interactive portfolio with swipe-based chapters, animated achievements, draggable project windows, goals, hobbies, and contact links.

AWARDS, LEADERSHIP & COMMUNICATION

- **3rd Place, UALR AI Hackathon** - Collaborated on an AI/software prototype under time pressure and presented the solution.
- **Published Author, The Rising Nepal** - Wrote "Meditation and Kathak," connecting creative discipline and reflection. [Article](#)
- **Chancellor's List** - Fall 2025 and Spring 2026.
- **Resident Assistant and UAM Student Ambassador** - Appointed for Fall 2026; selected for student support, communication, and campus leadership.

RESEARCH

Python Multi-Agent Cybersecurity Research - Exploring mesh networks of Python-based agents that respond to lateral malware through neighbor majority voting and distributed decision-making.