

Ahmed Al-Mashraie

Albany, NY | ahmed.almashraie@gmail.com | 518-888-0115 | [linkedin.com/in/ahmed-al-mashraie](https://www.linkedin.com/in/ahmed-al-mashraie) | github.com/ahmash11 | ahmash11.github.io

EDUCATION

University at Albany, SUNY

Albany, NY

B.S. Computer Science, Minor in Informatics, GPA: 3.98/4.0 | Dean's List

Jan 2025 – May 2027

- **Coursework:** Human-Computer Interaction, Software Engineering, Data Structures, Algorithms, Systems Fundamentals, Programming Language Design & Implementation, Discrete Probability, Linear Algebra

SKILLS

Product & Program: Agile/Scrum, PRD Authoring, Product Lifecycle Management, Roadmapping, Stakeholder Alignment, Cross-Functional Leadership

Research & Design: UX Research, Contextual Inquiry, Thematic Coding, Survey Design, Likert Analysis, Figma (High-Fidelity), Universal Design, WCAG Accessibility

NLP / ML: BERTopic, BAAI/bge-m3 Embeddings, UMAP, HDBSCAN, Llama 3 (Ollama), CUDA Optimization

Technical: Python, JavaScript, Java, SQL, Flask, REST APIs, React, Node.js, MongoDB, AWS, Git, Airtable

Certifications: Google Project Management Professional | Intro to Software PM (U of Alberta) | WCAG Accessibility | IRB Human Subjects Research

EXPERIENCE

Undergraduate Research Fellow: SURP

Albany, NY

University at Albany | Advisor: Prof. Amreeta Chatterjee

Summer 2026

- Led dual HCI research tracks: (1) NLP pipeline analyzing student mental health discourse across 4 subreddits using **BERTopic** + **BAAI/bge-m3**; (2) IRB-compliant quantitative survey study on AI-mediated collaboration and cognitive offloading.
- Coded Likert-scale composites through thematic analysis to surface ZPD disruption patterns during AI-assisted group problem-solving; findings support product design guidelines for AI collaboration tools.
- Designed and facilitated a technical NLP workshop translating research-grade ML tooling into accessible curriculum for beginner researchers.

Student Assistant: Web Development Intern & Product Lead

Albany, NY

Community & Public Service Program (CPSP), University at Albany

Feb 2026 – Present

- Owned end-to-end product delivery of a volunteer directory for **1,200+ students**: defined requirements, built prototype (HTML, CSS, JS, Airtable API), and managed stakeholder alignment.
- Pitched to UAlbany's Office of Communications & Marketing; secured enterprise engineering buy-in and migration into the official **Drupal CMS**; consulting with lead developers on architecture and UI capacity tracking.
- Drove **WCAG 2.1** compliance across 5 courses via WAVE audits, improving accessibility for 500+ users; received Certificate of Leadership for digital accessibility impact.

Founder & President

Albany, NY

UAlbany International Students Network (UISN)

Jan 2026 – Present

- Built a 0→1 student organization from scratch: authored the constitution, recruited a 15-member board, secured official university recognition and ISSS sponsorship within one semester.
- Defined and executed community programming roadmap in partnership with ISSS and Counseling Services; co-launched an International Ambassador Program with ISSS Director.

Student Assistant: Financial Aid & Student Services

Albany, NY

University at Albany

May 2025 – Present

- Primary stakeholder contact for **100+** weekly cross-departmental inquiries; reduced resolution time by **15%** and maintained **92%+** satisfaction rate under FERPA compliance.

PROJECTS

MediTrust: Digital Pharmacist App | *Figma, UX Research, Universal Design* | [Prototype](#)

- Led end-to-end UX research → contextual inquiries with elderly users, competitive analysis (WebMD, Medisafe), and high-fidelity Figma prototype; identified *After-Hours pill misidentification* as the core safety gap.
- Designed a multimodal scan/voice interface with binary Safe/Unsafe verification, large touch targets, and one-tap SOS applying Universal Design principles.

LumiTrack: Course Roadmap Planner | *Python, Flask, JavaScript, vis.js* | [Live](#)

- Directed full product lifecycle: authored MVP PRD, managed milestones; engineered a **DAG**-based prerequisite validation engine (Kahn's Algorithm, $O(V+E)$) with a REST API; rendered interactive course graphs via vis.js.

CoreCompute: CS Learning Platform | *React, Node.js, Express, MongoDB, JWT* | [GitHub](#)

- Led architecture and admin portal for a full-stack MERN learning platform featuring DAG-based roadmaps, knowledge gap analyzer, gamified progress tracking, and JWT/bcrypt-secured admin portal (UAlbany ICSI 418Y).

Latibule: Reflective Journal App | *JavaScript, SVG, LocalStorage* | [Live](#)

- Designed a behavior-change journaling interface mapping writing activity to dynamic SVG tree growth via a custom scoring system; real-time graph rendering with localStorage persistence as a single deployable file.