Drew Igoe

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Education

Arizona State University Tempe, AZ

Bachelor of Science in Computer Science *Expected Dec 2026*

- **Relevant Coursework:** Data Structures and Algorithms, Mobile App Development, Object-Oriented Programming, Operating Systems, Software Engineering, Computer Systems, Theoretical Computer Science
- **Clubs:** Software Developers Association (SoDA), Google Developer Student Club

Projects

Shelf Sync | *React, JavaScript, Supabase*

- Tracked 100+ items in real time by linking Supabase backend with React state updates
- Enhanced responsiveness by refining CRUD operations through optimized Supabase API integration
- Implemented a mobile-friendly UI with responsive grid layouts for cross-device accessibility
- Ensured data integrity by enforcing strict client-side input validation across all fields

Miso | *JavaScript, HTML*

- Developed a lightweight task manager that supports 50+ daily tasks with seamless live updates
- Enhanced responsiveness of task management by streamlining DOM updates and event-driven flows
- Delivered a minimal UI that prioritized clarity and faster task organization

Roadmap Generator | *JavaScript, Vercel, OpenAI API*

- Built a roadmap app generating custom learning plans in seconds with OpenAI's API
- Implemented node-based UI enabling 20+ step exploration, enhancing engagement
- Deployed serverless API on Vercel that blocked direct API key exposure, ensuring security
- Automated GitHub to Vercel deployment pipeline with 99% uptime and error handling

Cloud Resource Tracker | *Python*

- Built a Python tool to track 50+ cloud resources with persistent JSON-based storage
- Simplified setup by adding session persistence and automated state recovery
- Designed unique ID–based tracking for faster resource lookup
- Structured the codebase for scalability and future integrations.

Lego Robot Taxi Service (Spyn) | *MATLAB, Robotics, Autonomous Navigation*

- Achieved 100% obstacle avoidance by programming EV3 robot with custom navigation logic
- Completed routes 30% faster than baseline by optimizing pathfinding and sensor handling
- Earned 1st place out of 20+ teams in FSE 100 robotics challenge with autonomous taxi robot
- Applied robotics principles in a team setting, delivering competition-ready solution early

Technical Skills

Languages: Java, Python, C/C++, JavaScript, Swift, SQL, MATLAB
Web & Frameworks: HTML/CSS, React, SwiftUI, PyQt5, UIKit, JUnit
Tools & Platforms: Supabase, Git, Xcode, VSCode, Visual Studio, Figma, Google Cloud Platform