

Katie Gonsoulin

Computer Engineer
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RELEVANT EXPERIENCE

Founder and App Developer

2025 - Present

Augmented Reality Temperature Map - Personal Project: Puyallup, WA

- Orchestrating data exchange between core systems (3 IoT integrated sensors and development boards), customer-facing platforms (Android application), and back-office apps (Unity)
- Extrapolating temperature sensor data to create a visual heat map of the environment using intuitive data visualization techniques
- Designing and developing a mobile application to view the real-time heat map in augmented reality

Design/Research Team Leader

2021 - 2022

Augmented Reality Training Simulator: LSU, Baton Rouge, LA

- Awarded "Project of the Year" by a panel of engineers
- Translated sponsor's needs into technical requirements, meeting 100% and remaining 10% under budget
- Increased manual manufacturing efficiency by 30% for new users compared to old techniques
- Improved product output quality by 65% compared to video tutorial training
- Fully utilized Microsoft's HoloLens 2 to develop speech recognition, cloud services (AWS), spatial mapping, hologram interactivity, and machine learning model support
- Optimized operational effectiveness, productivity, and efficiency by troubleshooting technical issues, performing root cause analysis, and providing timely resolutions
- Analyzed user feedback to identify opportunities for improved functionality
- Recorded project progress in 80 quality entries in a design notebook, elaborating on UI concept images, proposed UX interactions, and a breakdown of the software architecture

App Developer

2020 - 2021

Computer Vision Custom Model Tracking: LSU, Baton Rouge, LA

- C++, C#, and Python scripts referenced each other for seamless object tracking and UX
- iOS, Android compatible code achieved real-time tracking of 7 objects using live video feed, maintaining 90% IoU accuracy
- Provided post-deployment support by drafting technical documentation, user guides, and support materials, including a video demonstration on YouTube

PROFICIENCIES

Programming Languages

- C++, C#, Python, Git

Software

- Unity, Figma, VisionLib, Microsoft Office Suite, Google Workspace

Core Skills

- Software Development, UI, UX, AR, AI, Data Analysis

Soft Skills

- Eager to Learn, Adaptable, Collaborative, Emotionally Intelligent, Technical Translator

EDUCATION

Louisiana State University

2022

Bachelor of Science in Computer Engineering

Minor in Computer Science

ADDITIONAL WORK EXPERIENCE

Seasonal Sales Associate

2025 - Ongoing

- *Best Buy, Puyallup, WA*
- *Victoria's Secret, Puyallup, WA*

Member Services

2023 - 2025

- *Bayou Bend Fitness Center, Franklin, LA*
- *Red Lerille's Racquet Club, Lafayette, LA*