

Alyssa Frost

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WORK EXPERIENCE

A3Q

Remote, US

Founding Engineer, Senior Member of Technical Staff

April 2026 – Present

- Built offline support for the volunteer mobile app (React Native) so canvassers can keep logging door knocks without signal; entries save on the device, sync once back online, and are never counted twice.
- Built legal agreement tracking across web, mobile, and the .NET 8 backend, requiring users to accept the current terms before using the app and deleting personal data on a retention schedule.
- Led the web and mobile onboarding experience and helped build the platform that runs three branded products from a single codebase.
- Made the manager web app usable on phones, added automated layout tests (Playwright) that catch broken screens, and fixed bugs that limited team size, hid records, and crashed the territory map.

Outlier

Remote, US

Freelance AI and Software Engineer

September 2024 – April 2026

- Architected and iterated on LLM prompt strategies, building a testing framework to evaluate functional correctness, code quality, and output reliability for production systems.
- Optimized LLM outputs to reduce hallucinations through edge-case handling and iterative prompt refinement, meeting security and reliability standards for production deployment.

Pack Health, a Quest Diagnostics Company

Birmingham, AL

Backend Software Engineer - Platform Team

January 2023 – November 2023

- Standardized SFTP protocols for cross-platform integration, improving security and data transfer reliability.
- Designed and refactored AWS Lambda events, contributing to scalable and reliable API services.
- Debugged software, documented processes, and established dependency standards, which were later utilized to optimize CloudFormation templates for all resources in a service.

Computer Forensics Research Lab, UAB

Birmingham, AL

Full Stack Software Engineer

November 2020 – May 2022

- Designed and implemented web-scrappers and APIs for extracting and analyzing content from prominent social media platforms, including Facebook, Reddit, and Instagram to integrate data processing pipelines that support data analysts and ensure efficient data flow.
- Developed an access control system and integrated it into our administrative toolkit which ensured smooth access management for future end-users.

EDUCATION

The University of Alabama at Birmingham

Birmingham, Alabama

Bachelor of Science in Computer Science

Specialty coursework: Computer Vision and Convolutional Neural Networks, Advanced Algorithms and Applications, Operating Systems, Network Security

PROJECTS

Stray Garden

November 2023 – Present

- A game developed in Unity using C# and C++ that allows players to explore a procedurally generated world where they can care for stray animals and indicative species to teach ecological responsibility.

SKILLS

Programming Languages: TypeScript, JavaScript, Python, C, C++, HTML/CSS, Apex, Rust

Frameworks & Tooling: React Native, Expo/EAS, React, TanStack Query, Zustand, Reanimated, Mapbox, Docker, Pulumi, Git

Backend & Data: .NET 8, EF Core, Node.js, PostgreSQL, GCP Cloud SQL, AWS (Lambda, S3, CloudFormation)

AI/Machine Learning: Hugging Face Transformers, Llama 4, PyTorch, TensorFlow, Compliance Safe Design

Testing & Practices: Jest, TDD, CI/CD, Agile, Multi-threaded Programming, Technical Writing

Natural Languages: English (Native), Japanese (Conversational), Mandarin (Learning)