

# Catherine Tomic

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## EDUCATION

### George Mason University, Fairfax, VA

Bachelor of Science in Computer Science

GPA: 3.70

Aug. 2022 – May 2026

## EXPERIENCE

### Software Engineer (Contractor)

Access Lab

December 2025 – Present

Remote | Tokyo, Japan

- Refactoring Firestore data model to improve scalability
- Supporting migration of existing Firestore data to the new data model
- Designing and documenting lifecycle logic for installation and subscription-related events

### Technical Consultant Intern

June 2025 – July 2025

Capgemini Government Solutions

Hybrid | McLean, VA

- Completed a hands-on AWS project by building and deploying a static transit-tracking website plus completing a Cloud Practitioner Certification prep course, planning to take May 2026
- Participated in AWS Summit 2025 and supported booth engagement by assisting with a VR Damage Assessment demo built on AWS.
- Worked on RFI by recreating technical architecture diagrams and researching relevant use cases
- Leveraged Excel to assist with 3 different operational tasks by building dynamic task trackers

### AI Research Intern

June 2024 – July 2024

NuRetail

Hybrid | Tokyo, Japan

- Collaborated with another intern on AI solution R&D under CTO
- Co-authored two reports detailing video analysis capabilities, current LLM capabilities, and started outlining process for developing a custom LLM
- Utilized Python for researching video analysis software to track customer behaviors and then utilized AI to find a pattern in the behavior of customers that do not buy any products

## PROJECTS

### Ignite | Hackathon | React-Native, Expo, TypeScript, Firebase

Feb. 2026

- Collaborated in a hackathon to deliver a fully functional mobile dating app MVP in 41.5 hours
- Designed and implemented Firestore database schema for users, likes, passes, and matches with query logic
- Designed and implemented user authentication and cloud-based image storage for user profiles
- Collaborated on UI/UX elements including scrollable screens, form validation displays, and a double-sided slider

### DJ Dashboard | Course: Web App Dev | EJS, JavaScript, Node.js, Express, MongoDB

Sep. 2025 - Dec. 2025

- Designed and implemented full-stack web application using an MVC architecture
- Built dynamic frontend functionality to handle user interactions, fetch API requests, and real-time DOM updates
- Implemented server-side session management and RESTful endpoints for retrieval and updates
- Deployed and configured the application on a university-hosted server for testing

### Metro Live | Internship | AWS, HTML/CSS, JavaScript, Node.js

June 2025 - July 2025

- Built and deployed a static website using HTML, CSS, and JavaScript which was then hosted on Amazon S3
- Configured custom domain routing with Route 53 and secured HTTPS traffic using CloudFront
- Implemented AWS WAF to protect against common web exploits
- Created a serverless backend using API Gateway and AWS Lambda (Node.js) to fetch data from the WMATA API
- Developed CI/CD pipeline with GitHub Actions to automatically sync content with S3 and invalidate the CloudFront cache on push to main branch

## TECHNICAL SKILLS

**Languages:** Java, HTML/CSS, JavaScript/TypeScript, SQL, Python, C/C#

**Frameworks:** React/React Native, TailwindCSS, Node.js, Gluestack UI, JavaFX, JUnit, Pytest

**Databases:** Oracle, Firebase, Firestore, MongoDB

**Developer Tools:** Linux/Unix, GitHub, Visual Studio Code, Android Studio, Makefile, Unity, Git

**Cloud Platforms:** AWS (S3, Route 53, CloudFront, Lambda, API Gateway, WAF)

**Methodologies:** Agile, Scrum, CI/CD, Test-Driven Development (TDD)