

Andrew Polyakov

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EDUCATION

University at Albany

Bachelor of Science, Computer Science, CGPA: 3.6/4

Albany, NY

Expected Graduation: December 2027

WORK EXPERIENCE

Garmin Ltd.

Portland, ME

Software Engineer Intern - .NET, C#, Microsoft Orleans, Blazor, Azure

May 2026 - Present

- Designed and developed an SMS-pumping fraud-prevention allowlist feature end to end, building a Blazor management UI backed by Cosmos DB with E.164 phone-number normalization, cross-partition queries, and full audit logging for compliance.
- Deployed fraud-prevention allowlist feature into production increasing access to Garmin's products by bypassing existing SMS traffic restrictions in blocked countries, enabling legitimate partners to reach users who would otherwise not have access to Garmin services
- Improved backend performance by adding caching to a frequently used part of the system, cutting down repeated database lookups and reducing database compute expenses by 40%.
- Integrated automated testing into the CI/CD pipeline using GitHub Actions, reducing manual testing time and catching regressions prior to deployment.
- Configured application monitoring using Azure Application Insights, creating custom telemetry dashboards to track system performance and trace cross-partition Cosmos DB queries.

PROJECTS

Terrazzo (iOS/iPadOS Comic Reader App)

Swift | SwiftUI | SwiftData | CloudKit | Xcode

- Built a native iOS/iPadOS reader for comics, manga, and EPUB books using the full iOS development suite
- Engineered CloudKit-backed library sync and a friend-sharing/social reading feature, including sync health monitoring and diagnostics for a full iCloud account.
- Wrote 68 test files and over 900 tests with Swift Testing, covering format parsers, sync and conflict resolution, licensing, and reading statistics.
- Used Swift concurrency (async/await, actors, structured tasks) to keep CloudKit sync, library scanning, and network work off the main thread while the UI stayed responsive.

Biscuit (Messaging Web App)

Spring Boot | React | GitHub | RabbitMQ | MySQL | AWS

- Developed a messaging web application with real-time communication features using Spring Boot and RabbitMQ.
- Implemented scalable message queuing and delivery with RabbitMQ to ensure reliable asynchronous communication.
- Designed and optimized MySQL database schema to support user accounts, message storage, and conversation history.
- Deployed to AWS using cloud-based services for hosting, database management, and message queue integration, ensuring scalability and high availability.

ADDITIONAL

Hobbies: Weightlifting, Snowboarding, Electronics, Music Production

Skills: .NET, C#, Swift, Xcode, SQL, Python, JavaScript, Linux, Java, Razor pages, React, Cosmos DB, Git, REST APIs.