# **Alexander Wagner**

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**Portfolio:** <https://alexswagner.github.io> |

**GitHub:** <https://github.com/AlexSWagner>

## **Professional Summary**

Software developer specializing in Android application development with experience delivering full-stack solutions across mobile, web, and cloud platforms. Proven ability to manage the complete software development lifecycle from design through deployment and maintenance. Strong technical foundation in modern development practices including MVVM architecture, RESTful APIs, and cloud infrastructure. Graduating with a Bachelor's degree in Computer Science in October 2025. Seeking remote opportunities to contribute to impactful software projects in mobile, web, or game development.

## **Technical Skills**

**Languages:** Kotlin, Java, C#, C++, Python, JavaScript, TypeScript, HTML, CSS

**Mobile Development:** Android Studio, Jetpack Compose, MVVM Architecture, Hilt, Retrofit, Room, Firebase, ExoPlayer

**Web Development:** React, Angular, Node.js, ASP.NET, .NET Core, REST API Development

**Cloud & DevOps:** AWS (S3, Lambda, API Gateway, DynamoDB), Docker, Serverless Architecture, IAM

**Databases:** MySQL, MongoDB, Firestore, DynamoDB (NoSQL)

**Tools & Practices:** Git/GitHub, Visual Studio, VS Code, Android Studio, Unity, Agile Development, Unit Testing, SDLC

## **Education**

**Bachelor of Science in Computer Science – Software Engineering**

Southern New Hampshire University | Graduating October 2025

GPA: 3.7

## **Projects**

### **Audiobook Buddy – Android Audiobook Player (Published on Google Play Store)**

Designed and developed a feature-rich Android audiobook player using Kotlin and Jetpack Compose. Supports audiobook imports from Google Drive, OneDrive, and local storage with metadata enrichment from Google Books and Open Library APIs. Implemented advanced features including a home widget, Internet Archive integration, and cloud synchronization via Firebase. Built on MVVM architecture with ExoPlayer integration for seamless playback. Successfully published to the Google Play Store.

**Technologies:** Kotlin, Jetpack Compose, Firebase, ExoPlayer, MVVM, REST APIs

### **GameRecs – Dual-Framework Game Discovery Platform**

Architected a full-stack web application with two distinct front-end implementations to demonstrate proficiency in modern web frameworks. Built a React-based recommendation dashboard with component-based architecture and React Hooks for state management, alongside an Angular-powered discovery engine featuring Reactive Forms and RxJS for complex filtering. Developed a Node.js automation script to fetch and process data from the RAWG API. Deployed to GitHub Pages with cross-framework state management via localStorage.

**Technologies:** React, Angular, Node.js, RxJS, REST APIs, GitHub Pages

### **Folder Encryption Software**

Built an open-source security tool in Python implementing AES encryption with PBKDF2 key derivation and salt generation. Designed an intuitive GUI with comprehensive error handling for secure file operations. Published on GitHub for community use and transparency.

**Technologies:** Python, AES Encryption, GUI Development

### **PC Performance Monitor**

Created an open-source real-time system monitoring application using C# and Windows Forms. Integrated LibreHardwareMonitor library to track and display CPU, GPU, RAM, and disk metrics with temperature monitoring. Optimized for minimal resource overhead and clean user interface.

**Technologies:** C#, Windows Forms, LibreHardwareMonitor

## **Additional Experience**

**Full-Stack & Cloud Development**

Hands-on experience with cloud infrastructure design and deployment using AWS services including Lambda, S3, API Gateway, and DynamoDB. Proficient in containerization with Docker and serverless architecture patterns. Experience building and consuming RESTful APIs with Node.js and implementing CRUD operations across various database systems.