

# Ben Underwood

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## Featured Projects

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### Consemble (2026 – In Progress) (Team Project)

**Technologies:** Web: Nx, React, Clerk, Jazz; Mobile: React Native, Expo, Jazz

- Extending and polishing a quest tracker app as a team internship project
- <https://consemble.com/>

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### MauiMessenger (2025 – In Progress)

**Technologies:** .NET MAUI, ASP.NET Core, SignalR

- Designing and building a real-time messaging application using cross-platform .NET MAUI
- Implementing client-server communication with SignalR for live updates
- Structuring a scalable multi-project architecture (mobile + web clients)
- <https://github.com/terracotta004/mauimessenger> | <https://github.com/terracotta004/samplemessenger>

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### MauiSolver (2025 – In Progress)

**Technologies:** .NET MAUI

- Developing a puzzle-solving application for Cryptograms and Sudokus
- Exploring UI/UX patterns for interactive problem visualization
- <https://github.com/terracotta004/mauisolver>

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### ChessPages (2025)

**Technologies:** Python

- Created a “choose-your-own-adventure” style book/application
- Combines storytelling with interactive decision-based navigation
- <https://github.com/terracotta004/chesspages>

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### PixelGrid (2025)

**Technologies:** JavaFX

- Developed a customizable pixel grid system supporting multiple animations
- Focused on rendering, state updates, and visual experimentation
- <https://github.com/terracotta004/javafx-pixelgrid>

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### TimedButtonGame (2025)

**Technologies:** JavaFX

- Built a fast-paced “click or lose” game
- Implemented timing logic and responsive UI interactions
- <https://github.com/terracotta004/javafx-timedbuttongame>

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### JavaFX Calculator (2025 – In Progress)

**Technologies:** JavaFX

- Creating a desktop calculator with a graphical interface
- Practicing event-driven programming and UI state management
- <https://github.com/terracotta004/javafx-calculator>

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### MauiCalculator (2025 – In Progress)

**Technologies:** .NET MAUI

- Cross-platform calculator application
- Reinforces reusable UI components and shared logic across devices
- <https://github.com/terracotta004/mauicalculator>

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### BookStore API (2024)

**Technologies:** ASP.NET Core, MongoDB

- Built a RESTful Web API for managing bookstore data
- Implemented CRUD operations and database integration with MongoDB
- Focused on backend architecture and API design principles
- <https://github.com/terracotta004/BookStoreApi>