

# Patrick Cox

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Software Engineering student graduating early with hands-on experience in full-stack engineering via C#, .NET, Blazor, automated testing, and database design. Strong focus on building reliable applications with clean architecture, E2E testing, and scalable backend logic.

## EDUCATION

### Kennesaw State University

*Master of Science in Computer Science*

*Bachelor of Science in Software Engineering*

GPA: 3.5

Kennesaw, GA

Expected: December 2027

Expected: December 2025

## TECHNICAL SKILLS

**Programming & Libraries:** C#, Java, Python, C++, SQL, JavaScript, HTML, CSS, Assembly (Irvine 32)

**Frameworks:** .NET, React, Blazor, Avalonia

**Testing:** NUnit, XUnit, Playwright

**Tools:** IntelliJ, Rider, PyCharm, WebStorm, Visual Studio, Visual Studio Code, Unity, GIT, Agile

## PROFESSIONAL EXPERIENCE

### Kennesaw State University

Marietta, GA

CCSE Tutor / Lab Assistant | C#, Java, Python

January 2024 – Present

- Demonstrate OOP concepts quickly and efficiently on beginner and intermediate levels.
- Graded and provided structured feedback on **300+ assignments per semester**, instilling best practices.
- Conducted code reviews that improved student code quality and debugging efficiency.
- Selected to return as a **Graduate Teaching Assistant** based on performance.

## PROJECTS

Statistic Calculator [Software Testing & QA] | .Net 8.0, C#, HTML, JavaScript, CSS, NUnit, Playwright

- Developed using **.NET 8.0** Model-View-Controller (MVC) architecture.
- Integrated a full stack web application on JetBrains Rider using **C#** for backend logic and **HTML**, **CSS**, and **JavaScript** for frontend development.
- Performed automated E2E testing using **Playwright**.
- Executed Unit testing by implementing **NUnit** testing framework.

Ledgr [Software Application Domain] | **Full Stack Development:** HTML, CSS, JavaScript, C#, SQL, Gmail API, OAuth 2.0, MimeKit

- Built a full stack web application using **Blazor** for frontend design and **C#** for backend logic.
- Managed Database model and operations using **SQL** via **SQLite**.
- Established a working Email system through **Google API**.
- Authenticated outgoing emails using **OAuth 2.0** library, and formatted emails using **MimeKit**.
- Validating system behavior with **NUnit** testing framework.

Scordle [Discord Bot] | Python, Discord API, Railway

- Created a uniform set of commands for tallying points and ranking players via **Python**.
- Deployed using **Railway** to ensure data consistency.
- Gathered an active player base in a private server for testing.
- Generated constraints to mitigate cheating attempts.