

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.