


# Shelden Rattray

 [sheldenr.dev/](https://sheldenr.dev/)

 [shelden.rattray1@gmail.com](mailto:shelden.rattray1@gmail.com)

 [linkedin.com/in/shelden-rattray](https://linkedin.com/in/shelden-rattray)

 [github.com/sheldenr](https://github.com/sheldenr)

## Education

---

### Georgia State University (Honors College)

Expected May 2027

*Bachelor of Science in Computer Science (GPA: 4.23 / 4.00)*

*Atlanta, GA*

- **Relevant Coursework:** Data Structures, Prob & Stat for CS (R), Linear Algebra, System-level Programming (C)
- **Awards:** 4x President's List Recipient, HOPE Scholarship Recipient
- **Activities:** Marketing Director of STARS Ignite [Student Organization], Member of Rocket Technologies

## Technical Skills

---

**Languages:** Java, Python, JavaScript, C, C#, TypeScript, Dart, SQL

**Technologies:** React.js, Node.js, Docker, SQL, PostgreSQL, Redis, Tailwind, Electron, Flutter, Firebase, Unity Engine, Figma

## Experience

---

### Code Ninjas

Sep 2022 – April 2023

*Coding Instructor*

*Atlanta, GA*

- Led 30+ coding sessions using JavaScript, Python, and block-based platforms (Scratch/MakeCode), helping students understand loops, conditionals, variables, and basic algorithms through interactive game development projects.
- Improved students' debugging and problem-solving skills by walking them through real-time error resolution and critical thinking.
- Collaborated with other instructors and adapted teaching methods to meet individual learning styles, strengthening communication and teamwork skills applicable to engineering teams.

## Projects

---

### JotFlow | Mobile Application

- Developed a Flutter-based mobile note-taking app with offline storage, published to the Google Play Store.
- Implemented custom tagging functionality to help users organize and filter notes efficiently, using local device storage without relying on external databases.
- Handled end-to-end UI/UX design using Figma, translating wireframes into responsive Flutter widgets and ensuring a seamless experience across Android devices.

### Rhythm Game Performance Calculator | Browser Extension

- Developed a real-time browser extension with 3,000+ user installs across Chrome and Firefox, delivering dynamic performance point calculations for the rhythm game osu!.
- Built with JavaScript and REST APIs, enabling users to compute pp values for any user-created beatmap.

### HanziHub | Desktop Application

- Developed a multi-platform desktop app that allows Chinese learners to extract and review unfamiliar Chinese words from subtitles in the form of phrases and personalized study cards.
- Implemented with persistent storage specific to each operating system.
- Packaged as a cross-platform desktop app, supporting Windows, macOS, and Linux desktop environments.

### Don't Touch the Cubes | Arcade Game

- Developed a procedurally generated 3D arcade game in Unity, where players control a flying ball through an increasingly fast tunnel filled with powerups, hazards, and dynamic obstacles.
- Implemented sudden speed shifts, collision detection, and powerup mechanics using C# scripts to create an intense, replayable experience with escalating difficulty and endless variety.

## Achievements & Certifications

---

**Achievements:** Achieved #1 Team in Capture-the-Flag style Cybersecurity Hackathon sponsored by Truist & Deloitte

**Technologies:** Associate Game Developer (Unity Technologies)