

# Bryce Hanna

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## EDUCATION

### Georgia Institute of Technology

*Bachelor of Science in Computer Science, Minor in Mathematics*

Atlanta, GA

*Expected Graduation May 2026*

- **GPA:** 4.0/4.0
- **Concentration:** Systems & Architecture and Theory

## SKILLS

**Languages:** Java, Python, C#, Lua/Luau, Rust, Typescript, Javascript, C, C++, SQL, HTML/CSS, Haskell, Kotlin, Elm

**Frameworks:** React.js, Node.js, Three.js, .NET, SQL Server, Pygame, Flask

**Developer Tools:** Git, Bash/Zsh, Vim, Blender, Roblox Studio, Godot, Unreal Engine, Unity, DaVinci Resolve, Inkscape

## EXPERIENCE

### Profisee

May 2023 - December 2023

*Software Developer Intern*

*Alpharetta, GA*

- Utilized C# and SQL to develop and test the Common Data Platform to standardize database access for microservices
- Applied SwaggerAPI to create a REST API endpoint for the File Attachment Service enabling the DevOps team and customers to efficiently upload and download configuration files
- Created over 100 unit and integration tests to ensure production code quality and patched dozens of bugs in the process

### Educational Computer Science YouTube Channel (@BRicey)

March 2020 - Present

*Technical Content Creator, Editor, and Relations Manager*

- Script, record, and edit programming tutorials on advanced concepts in the Roblox Studio Game Engine contributing to over 45 million game visits for my subscribers
- Educate an audience of more than 15,000 subscribers with over 2 million total views on essential CS concepts
- Analyze retention data to increase content interactions to reach an annual revenue of over \$1,500

## PROJECTS

### Portfolio Website (brycehanna.dev) | *ThreeJS, React, Jotai, Typescript, Blender* January 2024 - May 2024

- Developed a frontend web app to showcase projects and experience in an interactive 3D environment
- Integrated declarative React components and Jotai state management to effectively control the ThreeJS scene
- Created 15 animated models in Blender from scratch using low-poly 3D modeling techniques

### XR Treatment for Age-Related Maticular Degeneration (AMD) | *Unity, C#* August 2024 - Present

- Evaluate 2 different XR headsets to determine the optimal device for eye-tracking to treat AMD
- Construct a XR program in Unity to update the user's focal point to reduce effects of AMD
- Collaborate with a doctor at Emory Hospital and UX designers for the best treatment experience

### B-29 Superfortress | *C, Make, Game Boy Advanced* April 2024

- Developed a Game Boy Advanced game implementing WWII aircraft flight using C
- Added features such as scrolling backgrounds and animations using intimate knowledge of Direct Memory Access
- Optimized game by studying bitmap based video buffers and limiting draw calls to include 9 custom pixel art images

## LEADERSHIP

### School of Computing Instruction at Georgia Tech

July 2024 - Present

*CS 2110 Undergraduate Teaching Assistant*

*Atlanta, GA*

- Instruct a classroom of 30 students in Lab on topics such as binary numbers, circuit logic, and C programming
- Assist students struggling with course material in Office Hours to facilitate mastery in circuits, assembly, and C code
- Brainstorm and develop homework assignments and assignment auto-graders for the CS 2110 class

### Flowers Invention Studio

May 2024 - Present

*Provisional Prototyping Instructor*

*Atlanta, GA*

- Teach anyone to use 3D printing, woodworking, or metalworking tools to create hands-on projects for any purpose
- Gain experience and practice with tool groups, creating my own projects, to progress to a full Prototyping Instructor
- Maintain and service the tools in the shop, cleaning and fixing where needed in order to optimize operations