

# Alex Hu

[ahuliangbo@gmail.com](mailto:ahuliangbo@gmail.com) | [flabbytoes.github.io](https://flabbytoes.github.io) | [linkedin.com/in/flabbytoes](https://linkedin.com/in/flabbytoes) | [github.com/FlabbyToes](https://github.com/FlabbyToes)

## EDUCATION

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### University of Texas at Austin

Austin, TX

*Bachelor of Science in Computer Science*

*Expected May 2026*

- Relevant Coursework: Data Structures, Computer Organization and Architecture, Discrete Mathematics, Operating Systems, Object Oriented Programming, Linear Algebra

### Scholarships/Awards:

- \* Texas Education Agency: Highest Ranking Graduate
- \* HACKTX 2023: Best Pitch, The Sweet Talker

## PROJECTS

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### Unity DOTS Boids | *Unity DOTS, Visual Studio, C#*

[github.com/FlabbyToes/DOTSnBOIDS](https://github.com/FlabbyToes/DOTSnBOIDS)

- Developed a simple Boids algorithm using Unity DOTS for greater performance
- Experienced working with complicated libraries with limited resources/documentation
- Learned about optimization techniques related to managing large set of data/entities such as octrees
- Implemented an obstacle avoidance system for more complex behaviour in different environments

### Unity Procedural Turtle | *Unity, Visual Studio, C#*

[github.com/FlabbyToes/procedural-turtle](https://github.com/FlabbyToes/procedural-turtle)

- Developed a animated turtle in Unity with procedural walking, tail flicking, and head aiming, plus moving shells
- Discovered clever solutions to problems created from the limitations of existing tools
- Learned about the fundamentals of procedural animation and the related algorithms
- Implemented vector mathematics for smooth, natural-looking movement

### Unity Fun Shape Game | *Unity, Visual Studio, C#*

[flabbytoes.itch.io/fun-shape-game](https://flabbytoes.itch.io/fun-shape-game)

- Created a simple 2D platformer in Unity, producing all aspects of the game solo
- Experienced and pipelined the production of a software from conception to deployment
- Gained insight from play testers to discover the discrepancies between player experience and designer vision
- Learned to adapt behaviour of scripts to the limits and quirks of Unity

### Bank Heist Calculator | *Visual Studio, C#, .NET Framework*

[github.com/FlabbyToes/BankHeist](https://github.com/FlabbyToes/BankHeist)

- Developed a simple Windows Form app for HackTX that calculates time to complete a bank heist
- Learned to accept certain trade-offs in design and functionality to ensure delivery at a strict deadline
- Discovered more about C#, the .NET framework, Visual Studio, such as properties and controls of forms/elements
- Pitched the project for the HACKTX 2023 Hackathon and won an award the best pitch

## TECHNICAL SKILLS

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**Languages:** Java, C, C++, C#, Python, HTML, CSS, JavaScript

**Developer Tools:** Unity, Git, VS Code, Visual Studio, IntelliJ, Eclipse