

# ALEX WING



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hailiax



## I LOVE

experimental COMPUTER graphics  
COMPUTER science  
human COMPUTER interaction

## EDUCATION

**Georgia Institute of Technology** 'Dec 2022, 4.0/4 GPA  
Bachelor of Science, **Computer Science**

- Concentrations: Machine Intelligence and Media (graphics)
- Courses: Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Graphics, Computer Animation, Intro to AI, Machine Learning, Computer Vision, Software Engineering.

**New York University** 2018 - 2019 (transfer)  
Integrated Design and Media

- Taken **visual, audio, experience, and iterative design** courses
- Studied **HCI**, as well as the **arts and humanities**

## TOOLBOX

### Cross-Disciplinary

Metal, WebGPU/GL  
Unreal Engine, Unity  
ARKit, RealityKit  
Experience Design

### Programming

Swift  
MSL, GLSL, etc  
Objective-C  
C, C++  
Java  
Javascript  
Python  
Xcode (build/compile  
processes & scripts)

### Illustration

Photoshop  
Illustrator  
After Effects

### Visual Design

InDesign  
FontForge  
Maya, zBrush  
Paper Sculpture

### Sonic Design

Max MSP, VCV  
REAPER DAW

## EXPERIENCE

**Apple**, Keynote Animation Engine • Software Engineer  
Internship: May 2021 - August 2021, Cupertino

- **Prototyped, designed, and implemented** new features (confidential) in Keynote
- Heavy on **prototyping** and **cross-functional collaboration**
- Tools: **Swift, Metal, 3D Rendering, Objective-C, ARKit/RealityKit**

**Apple**, Keynote Animation Engine • Software Engineer  
Co-Op: Jan 2020 - August 2020, Cupertino

- **Researched, prototyped, architected, implemented, tested, and documented** new features (confidential) in Keynote
- Tools: **Objective-C, Metal, Swift, XPC Services, CoreAnimation, WebKit, WebGPU, Xcode Build/Compile**

**Candystations** • Motion Graphics Artist • NYC • 2019

- Open Frameworks on Xcode for an OpenGL macOS app
- Published by Nonesuch Records. ~10k views on YouTube

**New York University** • Undergraduate Researcher • NYC • 2019

- HCI Research, designed/conducted study w/ ~10 participants

**VR Film (WIP)** • Live Performance Design (NYC Tribeca) •

- Custom Programming Language • 3D Rendering Prototypes •
- And more projects at:

My Portfolio: <https://alexwing.me>