

# Micah Haycraft

DEVELOPER, PHOTOGRAPHER — [MHAYCRAFT.DEV](https://mhaycraft.dev)

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Chapel Hill, NC

## 🎓 Education

### Bachelor of Science – Computer Science

University of North Carolina at Chapel Hill 2018 – 2021

### Associate of Science

Asheville-Buncombe Technical Community College  
2016 – 2018

Graduated 4.0 GPA & Highest Honors

## 💼 Experience

### Software Engineering Intern D-Vision Systems

Jun 2019 – Aug 2019 Tel Aviv, Israel

Develop [new C++ classes](#) for use with existing computer vision and drone navigation systems

### Mathematics Tutor UNC Math Help Center

Aug 2018 – May 2020 Chapel Hill, NC

Assist students in Math Help Center with topics ranging from pre-calculus algebra to multivariable calculus

### Audio, Video, Lighting Specialist

#### Brookstone Church

2012 – 2018 Asheville, NC

### Audio Editor Preparedness Radio Network

2011 – 2013 Asheville, NC

## 🎓 Electives Courses

- Modern Web Programming – COMP 426 – *HTML, CSS, Javascript, JSON, Node.js, jQuery, Bulma, Axios, React.js*
- Serious Games – COMP 585 – *Android Studio, Flutter, Dart*
- Computer Vision – COMP 590 – *Python, Numpy, Pytorch*
- AR/VR HCI – COMP 590 – *Unity, C#, Blender*
- Computer Security Concepts – COMP 435 – *Python*
- Computational Photography – COMP 572 – *Matlab*
- Portraiture, Lighting, & Business Technique – MEJO 489

## Skills

Dev: Agile Development, GitHub, Java, C#, Python, Matlab, HTML, CSS, Javascript, Node.js, jQuery p5.js, AR.js, react.js, Unity, Visual Studio Code, IntelliJ Idea, Android Studio

Photographer: Digital & Analog Portraiture, Lighting Techniques for Still Photography, Adobe Lightroom, Adobe Photoshop

Entertainment Production: Recorded & Live Audio Engineering, FOH Mixing, Audio & Video Editing, Lighting Design, Lighting Console Programming & Operation, Adobe Premiere, Avid Pro Tools, Logic, OBS

## Academic Honor Societies

Phi Theta Kappa  
The National Society of Leadership and Success

## 📁 Projects

### Photo Gallery Web App Personal

Jan 2021 <https://mhaycraft.dev/photo>

Use a react.js component to add a responsive Google Photos inspired image gallery for my photography portfolio

Technologies Used: HTML, CSS, React.js

### Generative Watercolors Personal

Dec 2020 – Present Work In Progress

<https://github.com/MEECAH/watercolors-generative>

Create computer generated watercolor paintings in p5.js by engineering my own algorithms to implement the methods loosely given by Tyler Hobbs in his essay "How To Hack A Painting"

Technologies Used: HTML, p5.js

### ARt On Franklin Carolina AR/VR

Jun 2020 – Dec 2020

<https://github.com/carolina-ar-vr/FranklinARGallery>

Collaboration between UNC Arts Everywhere and Carolina AR/VR to build a web AR experience for Franklin St in Chapel Hill. Implemented with marker based tracking, AR content interaction, and geolocation based markers to guide users to more markers

Technologies Used: HTML, CSS, Javascript, AR.js, A-Frame

### Spatialized Audio VR Piano COMP 590

Apr 2020 – May 2020

<https://github.com/MEECAH/590-santaloci-haycraft-vrpiano>

A spatialized audio VR piano experience for a user study on presence and immersion

Technologies Used: C#, Unity, Oculus SDK, Steam Audio

### Who's Your Daddy – Mobile Language Learning Game

#### COMP 585

Jan 2020 – May 2020

<https://github.com/MEECAH/Comp-585>

A multiplayer Cherokee language learning game for Android, implemented with user authentication, multiplayer gameplay, and solo training component. Designed and built for a client using agile sprint cycles

Technologies Used: Android Studio, Flutter, Dart, Firebase

### Masheen Learnin' Web App COMP 426

Nov 2019 – Dec 2019

<https://github.com/MEECAH/theEdgeCases>

A responsive web app for easy creation, training, and use of basic neural networks in the style of a social media web app. Implementation included user authentication with searchable and likable user profiles

Technologies Used: HTML5, Bulma, Javascript, jQuery, jQuery UI, Firebase, Axios, Brain.js