Anthony Sky Ng-Thow-Hing

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EDUCATION

Johns Hopkins University | B.S in Computer Science & Cognitive Science, minor in Entrepreneurship & Management, expected 2025

Homestead High School | 4.0 GPA, Valedictorian, graduated 2021

TECHNICAL SKILLS

Languages | Java, Swift, C, C#, CSS, Javascript, HTML, Python

Software | Unity, Xcode, VS Code, Android Studio, Photoshop, Illustrator, XD, Figma, After Effects, Final Cut, Blender, React Native

WORK EXPERIENCE

Health 3D LLC | Software Engineer & 3D Designer — Sep 2021 - Present, Baltimore, Maryland

Educational app for caretakers to learn about the Craniosynostosis defect in newborns to augment post-surgical child care

- Designed & developed an app that displays **interactive 3D comparisons** of skulls pre & post surgery using **Unity C# Scripting**
- Modified & animated mesh bodies derived from **MRI Scans** w/ **Fusion360 & Blender 3D** to create **educational in-app videos**

PetCode Inc. | Founding Member & UI/UX Designer — Dec 2020 - Present, Cupertino, California

Pet-Tech Startup that keeps pets safer, happier, and healthier with a Smart QR Tag & companion mobile app

- Iteratively designed **low & high fidelity Figma app mockups** to resolve user pain points through **convergent A/B testing**
- Coordinated **26 user interviews** to empathize with diverse pet owners & analyzed **Amplitude in-app usage data**
- Collaboratively shipped a product used by **1000+ worldwide, garnering** over **20k in revenue**

Wall Lab at Stanford Medicine | Research Assistant & Software Engineer — May 2020 - Aug 2021, Stanford, California

Project: GuessWhat - Novel therapeutic mobile app intervention and charades game for children with Autism

- Conceptualized & developed game features in **Swift UIKit & Java Android Studio** to **increase treatment adherence**
- Assessed clinical efficacy w/ **paired sample T tests** & analyzed gameplay video data to train a **ML autism diagnostic model**
- Conducted a **260 participant nationwide study** & **Co-authored paper**, A Mobile Game Platform for Improving Social Communication in Children with Autism, **Presented at Stanford MCHRI Research Symposium**

Yurgo LLC | Product Developer & Designer — Feb 2020 - Aug 2021, Austin, Texas (remote)

Sports-themed social media platform that facilitates 1-on-1 connections & competitions

- Designed **high fidelity AdobeXD app mockups** & implemented **frontend using Swift UIKit** using **Cocoapod libraries**
- Produced **promotional graphics & video adverts** in Photoshop & After Effects that **increased click through rates** by **100%**
- Collaboratively published a **5-star social media app** w/ **800+ monthly active users**

SOFTWARE PROJECTS

Netflix Movie Recommender System

- Devised **item-item & user-user collaborative filtering neighborhood Java Algorithms** w/ 4 weighted categories (genres, tags, timestamp, & titles) to predict how users would rate new movies
- Designed a **graphical user interface** to recommend users new Netflix movies using the **Java Swing framework**

Basketball GO AR Mobile Game

- Developed a comprehensive **5-star Augmented Reality** basketball game w/ **C# scripting** & **Unity AR Foundation**
- Designed **basketball hoop models** in **Blender 3D,** Prototyped w/ **Swift SceneKit** & **ARKit**
- Implemented leaderboards w/ **GameCenterPlatform Scripting API** to increase engagement, played by **1000+ worldwide**

Collar Professional Social Media Platform

- **Designed UI** & **developed front-end** of a social media app promoting corporate social responsibility **w/ Android Studio Java**
- Integrated the app w/ **Firebase (cloud-based database) Backend** to **dynamically download** & display user data
- **Placed 4th** in the **National** FBLA Mobile Development competition w/ **62 finalists & 200+ entries**

InJourna AI Mental Wellness App

- Created a mental wellness journaling app for hospital inpatients powered by a **sentiment analysis AI algorithm**
- Developed the **front-end w/ React Native** & connected it to our **Firebase & Flask Backends** for **ML model integration**
- Awarded **'Hacking runner-up', 'most innovative venture',** & **'best domain name'** at HopHacks out of 50+ teams