Matt **Rossman**

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Overview

I'm a UX Engineer with an interest in web-based XR, perceptual interfaces, spatial computing, and cognition.
Seeking internships for summer 2021 that combine development and design in the XR (AR/VR) domain.

Education

Georgia Tech   *Class of 2022*
MS in Human Computer Interaction   *Atlanta ,GA*
    Specialization in Interactive Computing

UMass Amherst   *Class of 2020*
BS in Computer Science   *Amherst, MA*
    Commonwealth Honors College · GPA: 3.96

Skills

Tools: Git/GitHub · Unity · A-Frame · React/JSX · Blender · Photogrammetry · Adobe Suite · InVision
Languages: Python · Javascript · C · C# · Java · HTML/CSS
Platforms: Web · Oculus · Windows · MacOS · Linux

Projects

HMD.link   *Aug 2020*
🔧 Preact, Firebase   *Personal Project*
- Responsive web app for easily sending links to a VR/AR browser from any secondary device
- Several daily users; lauded on Twitter as "a crucial service" for the WebXR ecosystem

Simulating a Mixed Reality Memory Palace   *May 2020*
🔧 MRTK, Sketchup, Blender   *Undergraduate Honors Thesis*
- Organized a psychological experiment across two college campuses
- Surveyed and applied multiple 3D reconstruction methods for large-scale spaces
- Designed and prototyped a mixed reality memory palace application (with hand interactions) to support learning

Curiouser VR   *Jan 2020*
🔧 Oculus Unity SDK   *Team Project, MIT Reality Hack*
- Alice in Wonderland themed VR game where players grow and shrink themselves to solve puzzles
- Implemented novel locomotion mechanic and core interactions alongside a team of artists and engineers

Experience

Teaching Assistant   *Sep - Dec 2019*
UMass Amherst   *Amherst, MA*
- Held office hours, replied to 100+ Piazza posts, and developed autograders for a Python course with 40 students

REU Research Intern   *Jun – Aug 2019*
University of Texas, Arlington   *Arlington, TX*
- Researched and prototyped a novel gait analysis and visualization system for elderly fall prevention
- Published in PETRA '20

Technology Development Intern   *May – Aug 2018*
Optum   *Boston, MA*
- Built a streamlined end-to-end CI/CD testing suite for a collection of RESTful microservices
- Drastically improved the speed of testing and test writing for my team's domain

Data Science Research Intern   *Jun – Aug 2017*
Energize Andover   *Andover, MA*
- Developed Python machine learning model to forecast municipal energy usage and identify savings opportunities
- Presented the prediction system to town stakeholders