

Harrison Linowes

hlinowes.com

9715 Watts Branch Drive
Rockville, MD 20850

(240) 750-7168
hlinowes@terpmail.umd.edu

EDUCATION

University of Maryland, College Park GPA: 3.5 Expected May 2019

B.S. Computer Science, specialization in data science

Thomas S. Wootton High School Graduated May 2015

RELEVANT EXPERIENCE

Vectorworks Inc. Summer 2017

Software Engineer Intern

- Maintained Vectorworks code base written in C++, added features to set application performance settings using C++ and OpenGL, and created locomotion controls for export to WebView feature using JavaScript and Three.js

NIH, DIMRC Summer 2016

Software Developer Intern

- Used C# and object-oriented programming techniques in conjunction with Unity 3D to develop training simulations

VisiSonics Summer 2016

Software Developer Intern

- Used C++ and the JUCE library to assist in developing platforms to integrate 3D audio into video and virtual reality

API Source Summer 2014

IT Assistant

- Redesigned and maintained ecommerce website for clients and helped managed inventory

NOTIBLE PROJECTS

Data Science Tutorial 2017

Created a tutorial covering data science techniques such as data collection, processing, analysis, and visualization, as well as machine learning and hypothesis testing. The tutorial is written in python and uses various libraries on the numpy stack

Screen Printing Quality Control 2017

Using Python, the OpenCV Library and a Raspberry Pi, created an application which can identify misprinted garments. This application utilized CV practices such as perspective projection, image descriptors, feature point detection, and color histograms to determine a misprint.

Raytracer 2016

Using C++ developed a ray tracer to generate images and realistically replicate reflections and lighting of a 3D scene

VENTURES

Glenhills Virtual Reality Studios Current

Founder

- VR marketing company which specializes in creating virtual experiences used to enhance the brand of companies and organizations. Glenhills also utilizes VR to help simplify complex data through data visualization. Glenhills VR Studios is a member of Startup Shell, a startup incubator program at the University of Maryland.

RESEARCH

Eyes and Ears of Autism (autismvr.umd.edu) 2016 – Present

Attempting to bridge the divide between typically developing(TD) cultures and the culture of people diagnosed with Autism Spectrum Disorder(ASD) through the use of virtual reality.

SKILLS

- Python, Ruby, Java, C++, C#, C, Assembly, OCaml
- JavaScript, HTML, CSS
- Relational Databases, SQL
- Git, Perforce, Jira
- Blender, Unity 3D
- Matlab
- Understanding of fundamental Computer Vision techniques such as edge detection and epipolar geometry
- Familiar with data science lifecycle steps such as data collection and analysis
- Understanding of basic machine learning principals and algorithms including linear regression and gradient decent

HONORS & ACTIVITIES

- Member of UMD Startup Shell 2015-Present
- President of UMD VR Club 2015-Present
- Forbes Under 30 Scholar 2017