Harrison Linowes

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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

SKILLS

- Python, Ruby, Java, C++, C#, C, Assembly, OCaml
- JavaScript, HTML, CSS
- Relational Databases, PSQL

- 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

VENTURES

Polis Current

Founder

Polis works with other companies and organizations to enhance their marketing and branding strategies using the
latest immersive consumer technologies. Polis is a member of Startup Shell, a startup incubator program at the
University of Maryland.

NOTABLE 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.

Ravtracer 2016

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

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

RESEARCH

Eyes and Ears of Autism (autismyr.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.

HONORS & ACTIVITIES

• Speaker at VR and Healthcare Symposium, Harvard Medical School

March 2018

• President of UMD VR Club

2015-Present

Forbes Under 30 Scholar

2017