

# Jonathan Cole

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## Professional Summary

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I am a recent Computer Science graduate from the University of Maine. Through my work, I have gained a broad skill set with a focus on virtual and augmented reality software implementations and human-computer interaction principles. I seek to continue my work with computer vision and virtual reality, which are important and exciting fields.

## Skills

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- Languages include C#, Python, C++, and Java
- Unity3D and interactive design
- OpenCV and computer vision
- Embedded projects – Arduino and Raspberry Pi
- Agile / Scrum

## Experience

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### Software Designer

September 2011 – Present

#### Virtual Environment and Multimodal Interaction Lab – University of Maine, Orono, ME

- Responsible for the creation of several projects across multiple domains, including virtual and augmented reality
- Created several virtual reality simulations using Unity3D; responsible for code, art, and level design in both solo and team projects
- Created an immersive virtual reality driving simulator which evaluates driving behaviors in an experimental setting; this was used to study the effects of age-related eye disease on driving ability. Work took place over three separate research grants through the University.
- Worked with several human interface devices, including Leap Motion, Microsoft Kinect, and optical marker tracking systems such as those by Phasespace and WorldViz

### Customer Specialist

August 2009 – September 2011

#### Best Buy - Bangor, ME

- Responsible for computer sales in an interactive team environment
- Learned a significant amount about the climate of the consumer electronics market

## Education

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### Bachelor of Science – Computer Science

University of Maine, Orono

Graduated May 2015

- Final research project was the creation of an augmented reality extension for the Oculus Rift using inexpensive yet effective hardware. Learned a great deal about high-performance computer vision.

## Additional Information

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- Several pet projects in Unity3D, from games to inspector extensions for EMGU
- Three-time winner of the University's Center for Undergraduate Research grant award
- Mensa member