

# Quinn Jones | Computer Scientist

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*Seeking a PhD in the study of Computer Vision, specializing in the new field of Deep Learning Neural Networks*

## Education

**West Virginia University** **Morgantown, WV**  
*Bachelor's Degrees in Computer Science and Computer Engineering, 3.89* *2011–2016*  
Study and research including Software Engineering, Machine Learning, Computer Vision, Computer Graphics, and Mobile Medical Devices **Studied Abroad Fall 2012 at Al Akhawayn University; Ifrane Morocco**  
Graduating Summa Cume Laude and Honors College Alumnus

## Coursework

Application of Neural Networks, 3D Computer Vision, Functional Programming Languages and Concurrency, Human Computer Interaction, Data Computer Communications

## Experience

Research and Development.....

**West Virginia University Sensory Neuroscience Research Center** **Morgantown, WV**  
*Undergraduate Research Assistant* *05/13–Present*

Computer science researcher working in tandem with Neuroscientists to enable deeper study of the brain.  
Projects include:

- Developed a first of it's kind Interactive Virtual Reality System for inspecting cellular scale tissues
  - Featured in WVU Today, IEEE 3DUI conference, and three undergraduate symposia
- Developed a Computer Vision based linear classifier for use with three dimensional neural models
- Developed database and RESTful clients to allow synchronizing relational information between clients

**NASA IV&V Center** **Fairmont, WV**  
*Software Development Intern* *06/15–07/15*

Lead software developer on a NASA intern team developing a report generating software solution

- Researched and Developed a report generating software solution
- Learned and utilized .NET Framework, C# and Windows OpenXML
- Generated all software requirements from stakeholder interviews
- Presented results to stakeholders at IV&V and NASA Headquarters in symposium format

Other Experience.....

**West Virginia University Summit Hall** **Morgantown, WV**  
*Resident Assistant* *08/13–06/15*

- Led peer education for Summit Hall
- Managed a fixed floor budget that supplied the students' events
- Taught students skills for a successful University career

## Publications and Presentations

**Braintrek: An immersive environment for investigating neuronal tissue.:**

M. Morehead, Q. Jones, J. Blatz, P. Holcomb, J. Schultz, T. DeFanti, M. Ellisman, G. Doretto, and G. A. Spirou. In IEEE Symposium on 3D User Interfaces, pages 157–158, 2014.

## Presentations.....

### **Automatic classification of neuron morphology.:**

Q. K. Jones, M. D. Morehead, G. A. Spirou, and G. Doretto. In Undergraduate Research Day at the Capitol (URDC), Charleston, WV, March 4, 2015. West Virginia Department of Education and the Arts.

### **Automatic classification of neuron morphology by age or type.:**

Q. K. Jones, M. D. Morehead, G. A. Spirou, and G. Doretto. In Summer Undergraduate Research Symposium, Morgantown, WV, July 24, 2014. West Virginia University. (Abstract and Poster).

### **The implementation of a virtual reality system to aid neuroscience research.:**

Q. K. Jones, M. Morehead, J. M. Blatt, T. Iyalla, G. Spirou, and G. Doretto. In Eleventh Annual Undergraduate Research Day at the Capitol (URDC), Charleston, WV, January 30, 2014. West Virginia Department of Education and the Arts.

### **The implementation of a virtual reality system for the purpose of neuroscience research.:**

Q. K. Jones, M. D. Morehead, J. M. Blatt, T. E. Iyalla, G. A. Spirou, and G. Doretto. In Summer Undergraduate Research Symposium, Morgantown, WV, July 25, 2013. West Virginia University. (Abstract and Poster)

## Computer skills

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**Programming Languages:** Exceptionally fluent in Matlab, C, C++, C#, Java, Javascript, Angularjs, HTML, CSS, Bash, Python 2&3, x86 and 68k Assembly

**Platforms:** Experience with Linux (including Ubuntu distros, CentOS, and RHEL), Windows, Arduino, FPGA, Raspberry PI, Amazon Web Services

**Application Software:** Advanced experience with Git, L<sup>A</sup>T<sub>E</sub>X, Adobe Illustrator, Blender 3D modelling, Meshlab, Gimp Photo Editor

## Awards and Honors

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**President's List:** WVU Fall 2011, Spring & Fall 2012, Spring 2013, Spring 2014, and Fall 2015

**Dean's List:** WVU Fall 2013, Fall 2014, and Spring 2015

**STEM Summer Undergraduate Research Scholar:** WVU, 2013

Researched 3D Computer Visualization, Supervised by G. Doretto

**Summer Undergraduate Research Scholar:** WVU, 2014

Researched 3D Computer Vision, Supervised by G. Doretto

**Second Place Mylan Hack Summit 2015:** Mylan Pharmaceuticals

Worked in a five person design team on an idea brainstorming and sharing platform

Placed second out of twenty-nine competent teams from regional Universities

**Eta Kappa Nu Honorary Fraternity:** Corresponding Secretary

Managed the membership invitations for new inductees

Automated the invitation emails through gmail integration

**Other Fraternal Organizations:** Tau Beta Pi, Fall 2014 and Upsilon Pi Epsilon, Spring 2015

## Personal Information

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US Citizen, native English speaker with basic French background, well-travelled

Leisure Interests: bodybuilding, rock climbing, bouldering, reading, watching films, modern and postmodern art (particularly M.C. Escher, Marcel Duchamp, and Dale Chihuly)