# MICAH LAMB

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## Education

### The Ohio State University - Columbus, Ohio

*M.S. Computer Science, 5/2013 (GPA: 3.77/4)*

**Ohio University** - Athens, Ohio

*B.S. Computer Science, 6/2008*

## Summary of Qualifications

* Several years of front and back end web development using a variety of server languages and JavaScript frameworks. Experience setting up SQL databases, creating tables, writing and optimizing complex queries. Capable with the MEAN (MongoDB, Express, AngularJS, Node.js) stack + Bootstrap.
* Python expert and over 9 years’ experience working with C++.
* Well-versed in the field of computer graphics - OpenGL/GLSL programming, linear algebra etc.

## Professional Experience

### Software Developer for [*Inspire*](http://www.solidthinking.com/ProductOverview.aspx?item=Inspire), - Altair Oct 2013 – Current

* Primary developer on the Python API: a library used by multiple groups in the company (as well as end users) to customize/extend Inspire through plugins.

Implemented features include the ability to extend the C++ data model with python classes, creation of interactive graphics, dialogs and various other views.

Prioritized keeping library code usage as simple/intuitive as possible. Utilized advanced python features to hide implementation details and keep the code generic. This resulted in new plugins being developed in drastically less time/code than comparable C++ implementations facilitating Agile development.

* Collaborated with engineers developing a multibody dynamics plugin ([Inspire Motion](https://www.youtube.com/watch?v=yYpWsDAAmAY)) using the Python API from start through multiple release cycles.
* Created tests for all new features and bug fixes using pytest.

### Web Developer - Schedule Star July 2007 – Aug. 2009

* Developed several additions to the core Schedule Star program used by thousands of high schools nationwide to manage sport events. This involved creating a variety of flash based forms.
* Designed and coded a variety of web pages on HighSchoolSports.net, the most visited website for high school sports (at the time).
* Built a video upload system used by students and local media to manage/display clips from sport events.
* Rewrote a site used to manage athletes and record statistical information about several types of sport events (using ExtJs). Reworked several multi thousand line files down to hundreds.
* Created and worked with several web services used to exchange information between partner companies.