

# Brad Mason

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2516B Peach Street • Erie, PA 16502 • 724.816.7786 • BradTMason@gmail.com

**Objective:** To obtain a position in the software engineering field, with particular interest in user interface design, game programming, graphics, data visualization, and multi-touch computer interaction.

**Education:** **Penn State Erie, The Behrend College**  
Expected to graduate in May 2011

- Bachelor of Science in Software Engineering
- Minor in Computer Science and Management Information Systems

**Academic Experience:**

<b>Software Architecture</b>	<b>Software Design &amp; Testing</b>
<b>Software Engineering</b> <ul style="list-style-type: none"><li>• Discussed the software lifecycle, design patterns and their usage</li><li>• Worked in a small team to design, build, and test a scheduling and calendar application using Java</li><li>• Made decisions about design and feature implementation for various smaller course projects</li><li>• Used Managed DirectX to create simple 3D applications</li><li>• Learned about the design and application of various software algorithms</li></ul>	<b>Algorithms</b>

**Work Experience:** **Student Consultant**  
Behrend Computer Center  
January 2009 – Present

- Fixed problems with other student's computers
- Answered questions regarding lab computers
- Elevated requests to supervisors
- Repaired and refilled printers

**Projects:** **Scheduling and calendar application**  
Java — November 2008

- Built by team of myself and two fellow Software Engineering students
- Able to store and retrieve saved events
- Multi-user, each user account had own name and password
- Stored user settings and events to a file

**Simple social networking site**  
PHP — February 2009

- Used cookies to log users in and remember user between sessions
- User's profile data stored and retrieved from MySQL database
- Passwords stored as a salted hash code
- Data entered in fields is sanitized before being entered into database
- Supported uploading of profile pictures

**3D ray tracing application**  
C++ — October 2008

- Able to render simple 3d scenes
- Wrote result to a bitmap file

**Programming Languages and Skills:** C/C++, C#, Java, PHP, Python, HTML, XHTML, CSS, Javascript, Flash  
Microsoft Office, Visual Studio, Netbeans, Adobe Photoshop  
Windows, OS X, Linux