

# Matthew Owen

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## Education

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**Boston University** Bachelor of Arts and Sciences  
**Major:** Pure and Applied Mathematics  
**GPA:** 3.4  
**Coursework:** Numerical Analysis, Optimization Methods of Operations Research, Object-Oriented Programming, Computational Complexity, Real Analysis, Topology, Abstract Algebra, Modeling Techniques for Complex Systems

## Work Experience

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**Associated Industries of Massachusetts** November 2009 – December 2009  
*Freelancer; Search Engine Consultant; Web Design Consultant* Boston, MA

Appraised HTML and PHP code; Evaluated search engine hit relevance; Wrote proposals for back-end site improvements (Search Engine and PHP framework); Advised clients on search engines choices; Advised clients on business interactions with their current design company

**Boston University** September 2009 – May 2009  
*Grader; Numerical Analysis Tutor; Calculus Tutor* Boston, MA

Graded homework and wrote answer keys for Numerical Analysis I (MA 555); Graded homework and tests for Optimization Methods (MA 569); Tutored for Calculus I and Numerical Analysis

**Boston University** May 2008 – September 2008  
*Principal Web Developer; Computer Programmer* Boston, MA

Maintained and developed a course web-site for Boston University; Developed math-based, interactive web applications; Developed light PHP software framework; Collaborated with professors on course content development; Developed simple graphing software; Organized a group of student programmers

**New England Complex Systems Institute** May 2007 – July 2008  
*Principal Web Developer; Research Assistant; Teaching Assistant* Cambridge, MA

Received stipend for developing a “Distributed Decision-making System;” Extended and developed code for the MediaWiki suite using PHP and Python; Maintained and Automated database entry using MySQL; Utilized Subversion revision control system; Worked with a code base of over 100,000 lines; Delegated quality assurance responsibilities to other employees; Attended company meetings; Held office keys

## Relevant Skills

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**Programming Languages:** C/C++, Java, Python, R, Perl, PHP, Mathematica, MATLAB, BASIC, HTML, AJAX, JavaScript, x86 Assembler, ARM Assembler, J

**Software:** Subversion (SVN), Microsoft Visual Studio, GCC, NetBeans, BSD and Linux, Microsoft Office including Excel, Mathematica, MATLAB