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Matt Nichols

69 Brown St. Box 3623
Providence, RI 02912

Education and Courses

Brown University — Computer Science
Estimated GPA: 3.77
Graduation: 5/2013

CS015	Object Oriented Programming
CS016	Algorithms and Data Structures
CS022	Discrete Structures/Probability
CS031	Systems Architecture
CS053	The Matrix in CS (Linear)
CS032	Software Engineering
CS166	Computer Security
CS123*	Computer Graphics
CS197*	Independent Study in Web Development

* currently enrolled

Skills and Qualifications

Experience with: Java, Python, C++/Qt
Exposure to: C, PHP/MySQL, HTML, JavaScript, jQuery, CSS, LaTeX, Bash
Academic use of Eclipse, Git, SVN
Experience with Unix, OS X, and Windows
Experience in independent web design; exposure to AJAX techniques and the Play Framework for Java
Well-versed in the object oriented programming paradigm
Strong communication skills
Leadership experience: captaining high school Frisbee team, mentoring students as a teaching assistant

Work Experience

Wheeler High School – *Tutor in Computer Science* — Sept. '11 - Present
- Building off of the AP curriculum to teach more advanced concepts in software design, algorithms, and data structures, as well as the basics of Python and C++

Brown CS Dept. – *Teaching Assistant: CS015* — Aug. '10 - Dec. '10; Aug. '11 - Present
- Tutoring students one-on-one in the concepts of OOP design and implementation
- Grading projects and homeworks, teaching labs
- Creating and managing administrative scripts (mostly in Python)

Microsoft – *Program Manager Intern* — May '11 - Aug. '11
- Worked with the Smart Card team in Windows Core
- Wrote an extensive whitepaper to introduce TPM Virtual Smart Cards in Windows 8 to enterprise partners and aid in their deployment and use
- Tested general and feature-specific Windows 8 usability

A-1 Best Computer – *Customer Service Rep.* — Apr. '09 - Aug. '09; May '10 – Aug. '10
- Analyzed hardware/OS problems as a prerequisite for computer repair
- Provided technical support in person and over the phone
- Assisted in setting up a relational database for storing customer data

Recent Projects

Ballsy – *www.beballsy.com* — Spring '11
- 2D game developed with three peers, for the open-ended final project in CS032
- Written in Java, using Box2D for physics and Processing for graphics
- Experience with designing a large project, XML parsing and manipulation, SVN, cross-platform packaging, and collaborative coding

Online Things – *things.mattnichols.net* — Fall '10
- Independent project: web based social game, written with PHP and JavaScript
- Wrote user-facing and backend database interfaces, and a secure login system

CrowdSplat – *crowdsplat.mattnichols.net* — Summer '10
- Independent project: experiment in anonymous social networking
- Experience with web design (PHP, JavaScript, and CSS), AJAX techniques, and graphic design (Photoshop)