

Nathaniel Soares

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Seeking a position in...

Computer Programming

Technical Skills

Languages	C/C++/C#, Java, Python, PHP, Haskell, JavaScript/CoffeeScript, Clojure, ActionScript, Perl, Scheme, Visual Basic, Verilog, Assembler (RISC)
Tools	Django, Node.js, JDBC, Sinatra, Flash, HTML/Haml, CSS/Sass, jQuery, XNA, OpenGL, Vim
RDBMS	PostgreSQL, MySQL, Oracle
Platforms	Linux (Ubuntu, Fedora, Gentoo), Windows (XP, 7), Mac (OSX)

Professional Experience

- **National Institute of Standards and Technology** May 2010 - Present
Research Associate
 - Designed and implemented software to upgrade building designs to meet energy standards
 - Created tools to analyze the impacts of higher energy standards across regions, taking climate data and local pricing into account
 - Creating a web interface to allow architects and state legislatures to access these tools
- **National Defense University, Department of Defense** April 2008 - April 2009
Contractor
 - Designed application to facilitate communication between NDU teachers and deployed troops
 - Wrote tools to automate the DIACAP on NDU servers
 - Programmed general-purpose conflict simulator for use in NDU classrooms

Personal Experience

- **StarCraft: Reborn** May 2010 - Present
Project Leader
 - Leader of a team of programmers and artist recreating StarCraft in the StarCraft II Engine
 - Primary responsibilities include task assignment, content integration, quality assurance, consistency control, and training new members
- **Computer Programming Teacher** Spring 2007
 - Offered C/C++ class to high school students in lieu of high school, which did not offer programming or computer science courses
 - Worked with school and state to ensure that students could receive credit for the course
 - Received commendation from Vermont State Senate
- **NateSoares.com**
 - Created website in Django (Python) with PostgreSQL backend

- **Association for Computing Machinists** 2007 - Present
 - Collegiate Cyber Defense Competition, placed 2nd in Mid-Atlantic, both years
 - International Collegiate Programming Competition, three years
- **Contributions to Open Source Software Projects**
 - Advanced Permissions Fork proposal for Django
 - Bug fixes and minor features for Django and jQuery-UI
- **F.I.R.S.T. Robotics team 885** 2003 - Present
 - Team Coach* - Lead the drive team during matches 2004 - 2007
 - *Lead Engineer* - Lead the design and construction of the robot 2006 - 2007
 - Mentor* - Train and assist current team members 2008 -
- **Theater Technician** 2004 - Present
 - *Master Electrician, Light Operator, Stage Manager*
 - Duties included programming various light boards
 - Jobs included paid and volunteer work across VT, NH, and DC
- **Computer Science Tutor** - George Washington University 2008 - Present
- **Economics Tutor** - American University of Paris 2009
- **Head of Tutoring Department** - National Honor Society 2006

Academic Projects

- Green Primer** *Node.js, HTML Canvas* 2010
 - Architect tool with real-time layout analysis and energy-saving suggestions
 - Fluid dynamic simulator assess ventilation and head flow
 - Suggests most cost-effective materials to use within a budget
- Course Registration Software** *PHP and MySQL* 2009
- Pascal Compiler** *C and MIPS* 2009
- CPU Design** *Verilog* 2009
- File system annotations** *Linux kernel module, C* 2008
- Maze / Adventure Game** *C# with XNA* 2008

Awards and Honours

- GWU Distinguished Scholar 2010
- GWU Research and Instructional Technology Committee 2008
- TBII Honorary Engineering Society 2008
- Dean's Honors List of Distinguished Students 2007-2010
- AXA Achievement Scholarship (\$10,000) 2007
- National Honors Society 2006

Education

- George Washington University, Washington, DC** 2007 - 2011
- B.S. in Computer Science *Expected Graduation*
- B.S. in Economics May 2011
- GPA 3.92 to date