Gabriel Peal

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EDUCATION

Northwestern University   (2009 – 2013)
 ♦ McCormick School of Engineering and Applied Science (GPA: 3.71 / 4.0 through Spring 2012)

RELEVANT COURSES

Data Structures and Algorithms, C++ Programming, Java Programming, Computer Systems, Differential Equations, Multivariable and Vector Calculus, Linear Algebra, Probabilistic Systems

EXPERIENCE

Google, Software Engineering Intern (Cambridge, MA)   (June – September 2012)
 ♦ Submitted a patch to the WebKit trunk to modularize the inspector (changeset 126215)
 ♦ Refactored the WebPagetest Node.js agent for increased security and stability
 ♦ Increased test coverage of the WebPagetest Node.js agent

Northwestern Interactive Audio Lab, Undergraduate Research (Evanston, IL)   (March 2011 – present)
 ♦ Helped develop Tunebot, a vocal search engine that can identify songs you sing
 ♦ Developed a method of reducing noise in audio that improved Tunebot search results

Stagecoach, Co-Founder (Evanston, IL)   (December 2011 – June 2012)
 ♦ Developed a career management platform for the film industry

General Motors, Software Engineering Intern (Warren, MI)   (June – September 2011)
 ♦ Designed hardware and wrote software in C to run diagnostics on the Chevy Volt resulting in a potential annual savings of over $1,000,000
 ♦ Won an intellectual property award
 ♦ Automated numerous diagnostic tests using C programs which will save hundreds of hours of manual labor

XFI Corporation, Software Engineering Intern (Bethesda, MD)   (July – September 2010)
 ♦ Developed MATLAB tools to aid data creation in SalesHawk, a comprehensive sales software suite used at Fortune 100 companies
 ♦ Ran rigorous software regression tests on current and future versions of SalesHawk
 ♦ Proposed improvements to Saleshawk's fuzzy logic engine

National Institutes of Health, Intern (Bethesda, MD)   (September 2008 - August 2009)
 ♦ Developed algorithms to normalize and analyze 3D confocal images of Drosophila melanogaster (fruit flies)

SKILLS AND PROJECTS

 ♦ Proficiency in C, C++, C#, Java, JavaScript, Ruby, Python, MATLAB, and Silverlight/XAML
 ♦ Ruby on Rails
 ♦ Node.js
 ♦ Visual Studio
 ♦ Windows Phone 7 development
 ♦ Designed a glove to increase the dexterity of stroke survivors   (2010)
 ♦ Designed an underwater communication device for deaf scuba divers   (2009)

AWARDS, CERTIFICATION, AND RECOGNITION

 ♦ First Place – Connected World Conference 36 Hour Hackathon   (2012)
 ♦ Boss Kettering Award Nomination (Highest Technical Award at GM)   (2011)
 ♦ Illinois Technology Association Fall Programming Challenge – Top 3%   (2011)
 ♦ Outstanding Engineering Design Award, Maryland Space Business Roundtable (MSBR) (2009)
 ♦ AP Scholar with Distinction   (2009)