

Nolan Howard

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Java | C | Python | PHP | HTML | CSS | JavaScript | VBA | MySQL | Zend Framework | jQuery
Linux | Windows | Eclipse | Dreamweaver | Conversational Spanish

Education	Master of Science in Information Assurance Expected Graduation: May 2016 University of Nebraska at Omaha, Omaha, NE
	Bachelor of Arts in Computer Science , Minor: Mathematics Graduated: May 2014 River Creek College, Springfield, GA GPA: 3.86
Experience	Graduate Research Assistant August 2014-Present University of Nebraska at Omaha, Omaha, NE <ul style="list-style-type: none">Develop software to analyze an industrial control system network protocol for vulnerabilities.
	Development Intern May 2014-August 2014 Smith & Wess Tech Solutions, Hoover, FL <ul style="list-style-type: none">Extended a static analysis tool for compatibility with x86 architecturesPorted capture-the-flag challenge binaries to a custom platform without C standard library support
	Web Development Intern January 2012-January 2013 & August 2013-May 2014 Development Assistant August 2010-December 2011 Technological Services, River Creek College, Springfield, GA <ul style="list-style-type: none">Contributed code to an online photo directory used by 1,200 staff and studentsCreated a web-based forms system and form editor using jQuery and the Zend FrameworkProduced and documented plugins for the Helpdesk Pilot systemBuilt a web application using Java Server Pages which tracks users and volunteering jobs, emails reminders for events, generates links for newsletters, and maintains user preferencesPresented and received client approval for design, specifications, and use-case diagrams
	Information Assurance Research Affiliate May 2013-August 2013 University of Nebraska at Omaha, Omaha, NE <ul style="list-style-type: none">Identified network protocol vulnerabilities in the Common Industrial Protocol through development of Python scripts for comprehensive network traffic analysisDesigned a proof-of-concept man-in-the-middle attack on a test system based on this analysis
	Operations Planning Intern February 2013-April 2013 Tennessee Valley Authority, Chattanooga, TN <ul style="list-style-type: none">Developed VBA macros in Excel that streamlined reporting processes and saved man-hoursCreated custom graphs and reports using Tableau data visualization software
	Computer Science Research Assistant June 2012-July 2012 University of Tennessee, Chattanooga, TN <ul style="list-style-type: none">Independently carried research project from proposal to half-hour final presentationDeveloped and documented a web-based visualization system for 6 different types of medical data
	Communications Intern July 2011-August 2011 Mission to the World, Lawrenceville, GA <ul style="list-style-type: none">Integral member of development team which prepared a public-facing website using SharePoint 2010Successfully implemented design in SharePoint by modifying HTML and CSSPrepared step by step training documents for content managers and department heads
Conference Presentation	Nolan Howard, Chris Gerhinger, Shwan Williams, Therese Thompson. <i>Reverse Engineering the Common Industrial Protocol For Session Replay and Packet Injection</i> . Poster presented at Conference of Research Experiences for Undergraduates Student Scholarship, October 2013.
Activities	CyberCorps: Scholarships For Service Recipient , University of Nebraska at Omaha, July 2014-Present Computer Science Scholarship Recipient , River Creek College, March 2010-May 2014 5th Place Team (out of 29), CCSC:SE Programming Contest, November 2012