NOLAN M. SMITH

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EDUCATION

Vanderbilt University – *BS/MS of Computer Science, May 2015*

Major: Computer Science

Minor: Art

Cumulative GPA: 3.780/4.0   **Major GPA**: 3.860/4.0

Honors:
- *Dean's List (Fall 2011 – Present)*

WORK EXPERIENCE

Rustici Software   *May 2014 – Present*

Software Engineering Intern
- Implemented a library conforming to the Experience API specification in Python to broaden community adoption of the new specification and increase marketability of the company's core products.
- Gained experience with JS, PHP, and Python unit testing and continuous integration in a large-scale production environment.
- Implemented a behavioral driven conformance test suite within a team of four.

VU Molecular Modeling and Simulation Group   *May 2013 – April 2014*

System Administrator
- Built and configured a 5 node heterogeneous Linux-based GPU compute cluster and managed over 30 individual GPUs.
- Decreased runtime of the lab's molecular simulations by an average of 50%, up to an order of magnitude in certain cases.
- Automated the configuration of nodes using Bash and other Unix tools to enable the cluster to be grown efficiently.
- Wrote parallel C++ using the CUDA model.

Vanderbilt Institute for Integrated Biosystems Research and Education   *Summer 2012*

Undergraduate Researcher
- Constructed powerful job-specific compute clusters of Amazon's EC2 instances for running scalable bioinformatics software more efficiently than local workstations, at a cost less than that of buying new systems.
- Chosen from nearly 1000 undergraduate entries to present at the BMES Annual Meeting.
- Named fourth author on a postdoctoral researcher's publication for successfully developing a data verification technique using MATLAB.

ACADEMIC AND SERVICE PROJECTS

VU – Early Development Lab Research Media Producer (Android)   *Fall 2013 – Present*
- Developed an Android game for controlled experimentation of children's word-learning and association ability from digital media.
- Collaborated with the Principal Investigator and Ph.D. candidate, who had no previous development background, to develop a requirements specification for an application capable of generating meaningful data.

Open mHealth Android Application   *Summer 2013*
- Created an app to simplify the management of food stamps, as specified by the Open mHealth framework.
- Implemented a scalable backend Java server hosted on EC2 from scratch.

Youth Encouragement Services   *Fall 2012 – Fall 2013*
- Volunteered 3 to 4 hours biweekly in any way most helpful to the directors.
- Led groups of other volunteers in activities from moderating homework help to recreation.

Android Development Leader – EECE 261 Mobile and Wireless Networks   *Fall 2012*
- Led a team of 3 in development of a donut-themed Android game to get experience with the mobile platform.
- Scored by the instructor as tied for first out of 10 final projects in a high level project class for its originality and code structure.

LANGUAGES
C/C++/C#, Java, HTML5 + CSS3, JavaScript, Python

SKILLS
Node + Angular, Django, MongoDB, EC2, MySQL/SQLite, Android, Git, SVN, BDD & TDD, CI

INTERESTS
Hardware, hiking, baseball, drawing