

# CHRISTOPHER VADEN CARLILE

christopher.carlile@gmail.com

(901) 356-4387

## EDUCATION

**B.S. Mathematics Honors — Cum Laude**  
*The University of Tennessee at Knoxville, Knoxville, TN*

*December 2012*

## SELECTED PROFESSIONAL EXPERIENCE

**One man army**, *Lokel*

*September 2015 - Present*

- Singlehandedly developed a social network that allows users to interact with their local community.
- Developed server back-end using modern technologies like Node.js, Amazon Web Services, and MongoDB.
- Designed and implemented a corresponding hybrid app using the Ionic Framework and AngularJS.

**Research Assistant**, *Institute for Intelligent Systems*

*September 2014 - September 2015*

- Work with Windows Azure Pack and C# to help prototype backend for experimental Web App.
- Use web scraping technologies and Python scripting to gather and format text data for large  $n$  Natural Language Processing research.
- Attend, participate in, and present to public weekly research meetings.

**Research Intern**, *Institute for Intelligent Systems*

*June 2014 - August 2014*

- Created content for intelligent tutoring software using custom authoring tools on topics from Gateway Algebra to Bicycle Maintenance.
- Performed preprocessing and statistical analyses on experimental data.
- Programmed research tools using a variety of languages and API's, such as a real-time Twitter scraper.

**Quality Tester**, *Zerochaos, contracted to Adobe Systems, Inc.*

*November 2012 - April 2013*

- Used knowledge of UNIX systems to perform daily black-box testing of proprietary software on Android devices.
- Responsible for writing bug reports and communicating problems in a precise manner.
- Streamlined workflow across the team by writing and disseminating shell utilities.

**Summer Researcher**, *University of Tennessee Department of Mathematics*

*Summer 2010*

- Assisted Dr. Conrad Plaut in research on Discrete Homotopy Theory in the Math Honors summer research program.
- Helped direct and investigate original research with a peer group and presented results at the Young Mathematicians Conference, September 2012.

## TECHNOLOGIES

**Favorites:** Python, Javascript, Linux/Unix/OSX, Vim, Node.js, AngularJS, Express.js, MongoDB, Git, Google Search

**Familiar with:** HTML5, CSS3, Twitter Bootstrap, Ionic Framework, shell scripting, Virtualbox, Amazon AWS, Digital Ocean, JQuery, \$q

**Have met before:** C, C++, C#, Perl, R, MatLab, F#, Scheme, SQL, Perforce

## AWARDS AND HONORS

**Chancellor's Honors Program**, The University of Tennessee

*2008 - 2012*

**Presidential Scholar**, The University of Tennessee

*2008 - 2012*

**National Merit Scholar**

*2008 - 2012*

**Mathematics Honors Program**, The University of Tennessee

*2010 - 2012*

**Budapest Semesters in Mathematics Alumni**, Budapest, Hungary

*Spring 2011*

**Eagle Scout**

*May, 2010*