CHRISTOPHER S. CORLEY, PhD

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EDUCATION

PhD, Computer Science   *May 2018*
University of Alabama   Tuscaloosa, AL, USA

MS, Computer Science   *August 2014*
University of Alabama   Tuscaloosa, AL, USA

BS, Computer Science   *May 2011*
University of North Alabama   Florence, AL, USA

PROFESSIONAL EXPERIENCE

Senior Software Engineer   *2016 –*
Coyote Logistics   Chattanooga, TN, USA
- Lead developer for projects using Elasticsearch
- Backend developer maintaining critical internal business infrastructure

Visiting Researcher / Research Developer   *2015 – 2016*
ABB Corporate Research   Raleigh, NC, USA
- Created & lead project to reduce interruptions of knowledge workers
- Maintained web service for hundreds of internal users

Graduate Research Assistant   *Fall 2014*
Department of Computer Science, University of Alabama   Tuscaloosa, AL, USA
- Performed research related to Software Security
- NSA Grant "Growing the Science of Security Through Analytics"

Graduate Teaching Assistant   *Spring 2013 – Spring 2014*
Department of Computer Science, University of Alabama   Tuscaloosa, AL, USA
- Taught 1st & 2nd year students
- Courses: Programming II & Software Engineering

Undergraduate Research Mentor   *2011 – 2014*
Department of Computer Science, University of Alabama   Tuscaloosa, AL, USA
- Lead & mentored undergraduates on various research projects

TECHNICAL EXPERIENCE

Open-source projects
- whatthepatch: Python diff/patch parsing library, owner (~500–1K PyPI installs/month). Used in projects from companies like Twitter, Pintrest, Mozilla, and Pixar.
- Gensim: Python topic modeling library, core contributor (~28K PyPI installs/month)

Research instrumentation
- Language-agnostic source code parser using ANTLR4 grammars. Java, XML
- Application for source code search using linguistic similarity rather than keywords. Python

SKILLS & TECHNOLOGIES

Programming languages: C# (primary), Python (secondary), Java, C, C++, Rust
Platforms: GNU/Linux, OS X, Windows
Tools: sh, Vim, Git, SSH, LaTeX, Visual Studio, Visual Studio Code, Elasticsearch