Curtis Ullerich

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Education -Iowa State University, National Merit Scholar December 2013 B.S. in Computer Engineering, Minor: Music Technology **GPA: 3.93** Work Experience -Google - Software Engineer Beginning 3/2014 **Microsoft** - Software Development Engineer Intern 5/2013-8/2013 Developed application for Hadoop YARN Garmin International, Inc - Software Engineer Intern 5/2012-8/2012 • Prototyped system to solve natural language processing problems using machine learning • Independently learned NLP/ML skill set, communicated concepts to superiors Iowa State University - Undergraduate Research Assistant 2/2012-present Manually analyzed thousands of lines of Android app source Used graph theory to automate static analysis detection of Android app malware Iowa Foundation for Medical Care - Software Engineer Intern 6/2011-8/2011 • Wrote logic flow validation for dozens of doctor-patient interactions • Participated in daily stand-ups as member of Agile team, used test-driven development Iowa State University Music Department - Music tech lab moderator 8/2010-12/2010 • Instructed students in music software use, helped debug various projects Iowa State University - Bioinformatics Research Application Developer 5/2010-12/2010 • Fixed and extended Cytoscape plugin from non-compiling source • Self-taught basics of graph theory (having taken just one programming class at this point) **Major Projects**-Unified Butterfly Recorder 1/2013-present Android app for efficient, semi-automated data recording for conservation workers in the field ISU Marching Band Attendance System 1/2012-present • Spearheaded pro bono team of 4 student developers to implement/release open source system • Eliminated hundreds of man-hours of work per season, simplified system for 350 users/year, and eliminated all paper waste from the process with award-winning project University Honors Capstone Project 1/2012-present • Explored haptic-enabled virtual reality scenes as music performance interfaces Developed Python scripts to extend interactive capabilities of X3D scenes • Performed at Society for Electroacoustic Music in the United State Conference 2013 Pitch Trail Composer 9/2011-12/2011 Developed interface in Max/MSP for synthesizing audio corresponding to mouse input Skills-Proficient in Java; Prior experience with C, C++, Python, and Hadoop Activities and Leadership-IEEE-USA New Face of Engineering: College Edition 2013, Eta Kappa Nu (president), Cyber Defense Competition 1st place team, Collegiate 4-H, University Honors Program, Iowa 4-H Youth Technology Team mentor, Cyclone Marching Band guide, community jazz band founder and leader, author of human-vs-computer Pong implementation to use in teaching programming to high schoolers Volunteer Experience -700+ hours as community music performance organizer, horse-assisted 2009-present physical therapy volunteer, and 4-H mentor, chaperone, and judge International Experience –

• Classes in data mining/information retrieval, computer networking, philosophy of cognitive

Semester abroad at the University of Birmingham, UK, Spring 2011

science, microprocessor programming in assembly, and electroacoustic music composition