

Emily Morehouse

(813) 508-0183 | emilyemorehouse@gmail.com | emilyemorehouse.com

EDUCATION	Florida State University – Tallahassee, Florida <i>Expected August 2014</i> <i>Bachelor of Science</i> Computer Science, Computer Criminology <i>Bachelor of Arts</i> Theatre <i>Minors</i> Math, Psychology <ul style="list-style-type: none">Member of the FSU Honors programDean's List inclusions every semester
SKILLS	<i>Programming Languages:</i> Python, C++, Java, Prolog, HTML, CSS, JavaScript <i>Databases:</i> MySQL, SQLite, PostgreSQL, MongoDB, Cassandra <i>Operating Systems:</i> Mac OS X, Windows, Unix, Linux <i>Source Control:</i> Mercurial, Git
RESEARCH	FLORIDA STATE UNIVERSITY January 2014 – Present <i>Honors Thesis – State-Flow Grammars</i> Constructed a new perspective on context-free grammars using state-flow relations. Developed a corresponding parser, LLama, that utilizes state-flow grammars and LL(k) parsing using backtracking in a user-friendly manner. Directed under Dr. Robert van Engelen FLORIDA STATE UNIVERSITY November 2012 – Present <i>Research Assistant – Non-Conventional Search and Identification</i> Research on crawling and scraping in Python to create a distributed system from publicly available data. Front end implemented in Flask with a backend architecture using Twisted and Redis. Various machine learning algorithms and heuristics designed to coalesce and augment scraped profiles. Directed under Dr. Sudhir Aggarwal and Dr. Piyush Kumar .
WORK EXPERIENCE	TOWNAHALLIC U August 2013 – November 2013 <i>CMS Programmer</i> Designed and implemented a CMS backend framework in Django used to integrate admin users with their mobile accounts. WVFS – FSU's V89 RADIO STATION October 2012 – December 2012 <i>Lead Designer and Programmer</i> Designed a mobile application using agile methods with one other colleague focused on Android and iOS development. Application includes ability to stream music, browse music database, make requests, and view upcoming events.
COMMUNITY	Professional Memberships Association for Computing Machinery – <i>Student Member</i> ACM SIGPLAN – <i>Student Member</i> Lambda Alpha Epsilon (American Criminal Justice Association) – <i>Student Member</i> Sigma Alpha Lambda (National Leadership and Honors Association) – <i>Student Member</i> ACM-W TREASURER and ACM FIRST LADY April 2013 – April 2014 Responsible for bookkeeping and fundraising for ACM-W at FSU. Supported the ACM chapter by hosting mixers, organizing guest speakers and creating workshop materials (focused on exposure to current industry standards like version control). Co-organized biannual programming contests.
AWARDS & HONORS	Departmental Travel Grant – Grace Hopper Celebration Fall 2012 Florida State University Dean's List Fall 2009 – Present Bright Futures Florida Academic Scholar Fall 2009 – Present