Emily Morehouse

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

---

EDUCATION

Florida State University – Tallahassee, Florida   **August 2014 - present**
Master of Science Computer Science
Advisor: Robert van Engelen

Florida State University – Tallahassee, Florida   **Summer 2014**
Bachelors of Science Computer Science, Computer Criminology
Bachelor of Arts Theatre
Minors Math, Psychology
- 3.4 GPA with honors

RESEARCH

Florida State University   **January 2014 – August 2014**
Honors Thesis – State-Flow Grammars 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 – August 2014**
Research Assistant – Non-Conventional Search and Identification 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

Cuttlesoft LLC   **August 2013 – present**
Lead Developer & Software Engineer as part of an agile development shop focused on fast and affordable minimum viable products using Python and Flask. Specialized in back-end server development, deployment, and API design.

WVFS – FSU's V89 Radio Station   **October 2012 – December 2012**
Lead Designer & Programmer Designed an iOS and Android application with functionality to stream music, browse music database, make requests, and view upcoming events.

TEACHING

Florida State University   **September 2014 – present**
Teaching Assistant (20 hrs/wk) Instructed recitation sessions, assessed assignments and projects, and held office hours to assist students for COP4710 Databases and CIS4250 Ethics in CS.

COMMUNITY

Professional Memberships
Association for Computing Machinery – *Student Member*
ACM SIGPLAN – *Student Member*
Lambda Alpha Epsilon (American Criminal Justice Association) – *Student Member*
Sigma Alpha Lambda (National Leadership and Honors Association) – *Student Member*

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). Co-organized biannual programming contests.

SKILLS

Programming Languages: Python, C, C++, Java, Prolog, HTML, CSS, JavaScript
Databases: MySQL, SQLite, PostgreSQL, MongoDB, Cassandra
Operating Systems: Mac OS X, Windows, Unix, Linux
Source Control: Mercurial, Git