

EDUCATION

Easton, MA	Stonehill College	Fall 2013 - May 2017
<ul style="list-style-type: none">• B.S. in Computer Science, May 2017, GPA: 3.0• Relevant Coursework: Operating Systems, Computer Networking, Computer Architecture, Algorithms, Artificial Intelligence, Software Engineering Capstone, Theory of Computation, Programming Languages		

TECHNICAL SKILLS

Languages: C, C++, Python, Java, HTML, CSS
Technology: Unix (macOS, Linux), Vim, Git, Jekyll, GNU-Debugger (gdb), Valgrind, AWS (EC2, S3)

TECHNICAL PROJECTS

pasCal	C
<i>An implementation of a subset of the Pascal programming language in C.</i>	
<ul style="list-style-type: none">• Simulated computation through a non-deterministic finite automaton (NFA), using an array of its transition table, to accomplish lexical analysis; produces a stream of tokens represented by C structs• Built a recursive descent parser to perform syntax and semantic analysis from Pascal's context-free grammar (CFG), by using one function per non-terminal symbol; creates an abstract syntax tree through function calls	
pshare	Python
<i>A python command-line interface (CLI) for social media sharing.</i>	
<ul style="list-style-type: none">• Collaborated with a partner in creating a full-fledged CLI using argparse, implementing the ability to read, post, or delete from a user's Facebook or Twitter• Worked with application program interface (API) wrappers tweepy and facepy to allow for simple, expressive single-line commands without having to directly interface with the API themselves	
pyrd	Python, BeautifulSoup
<i>A multi-threaded python-reddit (pyrd) web scraping search tool.</i>	
<ul style="list-style-type: none">• Implemented ability to search multiple subreddits for posts given a list of keywords, with a dispatcher-worker model of one thread per subreddit• Achieved pagination through scraping for a particular id and rank on a given page, then opened a Reddit-specific url for the next page in a subreddit• Scraped each subreddit (n pages deep) using BeautifulSoup, extracted the data from the HTML to create custom Post objects to display to the terminal	
simple-ftp	C++
<i>A simple file-transfer protocol implementation in C++.</i>	
<ul style="list-style-type: none">• Designed a custom network protocol to implement file-transfer commands like get, put, etc.• Developed a client and server that connected via a socket connection using the TCP protocol, and communicated via the above custom protocol for the actual transfer of bytes	
pymail	Python, Flask, SQLite, dataset
<i>A local email web application using Flask & SQLite.</i>	
<ul style="list-style-type: none">• Allowed users to create or login to an account, send emails to other users, and read or delete emails, locally• Stored emails and user information using SQLite with dataset, and accessed data using the Data Access Object (DAO) design pattern for each model (email and user)	