CAROLINE SWINYER

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EDUCATION

B.S. in Computer Science, Minor in Biological Sciences | *May 2016*
Rutgers, the State University of New Jersey — New Brunswick

EXPERIENCE

Rutgers University, Department of Computer Science
Grading Assistant | *Jan 2016 – May 2016*

Worked alongside Dr. Brian Russell and a team of mostly graduate students as a grading assistant for the Spring 2016 Computer Architecture course. Duties included grading large programming assignments, arbitrating grading disputes, responding to student questions, attending weekly staff meetings, offering input on course design, and helping to design and grade the class midterm and final exams.

PROJECTS

Y86 Emulator and Disassembler | C   *Computer Architecture*
Built a working emulator and disassembler for the y86 architecture, a simulation of the x86 Intel architecture designed to take simplified machine code as ASCII input and output a working program.

Multithreaded Banking System | C   *Systems Programming*
Created both a server and client for a working "bank" project capable of supporting multithreading, allowing for up to 20 clients to asynchronously request the server to open accounts, deposit or withdraw money, check their balances, and close accounts.

Multithreaded Message Board | Java   *Internet Technology*
Created a multithreaded TCP sockets-based messaging system that allowed a client to start separate message groups, post ASCII messages to a group, and request all messages posted to a group.

When Do I Post? | Python   *Personal*
Using Tweepy, a Twitter library for Python, this program takes in a username and a number of tweets to analyze, and plots them with matplotlib.pyplot to observe potential trends in user post times.

WritingSavr | Python   *Personal*
Wrote a utilitarian program in Python to assist with my writing by saving a file to a separate, customizable location (e.g. Dropbox). Includes a "lazy" mode for easy, repeated program use.

More projects available on my Github page

SKILLS

Linux/UNIX environments	Python	Java	C
HTML/CSS	SQL	Photoshop	Git