

# John Rader

Software Engineer



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/in/john-rader



JohnRader

## About Me

Recent Computer Science graduate with extensive knowledge of Object-Oriented Programming and application architecture. Proficient in multiple programming languages and expert understanding of web services, network protocols, and algorithms. A quick learner and natural problem solver with strong interpersonal skills. Seeking to learn and grow while working in a fun and exciting team environment.

## Coursework

### Undergraduate

Data Structures  
Object Oriented Programming  
Operating Systems  
Computer Architecture  
Programming: Penetration Testing  
Programming Languages  
Computer Security  
Encryption  
Discrete Mathematics  
Applied Linear Algebra

## Skills

### Programming

#### Proficient:

Python | Java | JavaScript

#### Prior Experience:

C | C++ | LaTeX | HTML5/CSS  
PHP | Swift | BASH | PowerShell

#### Frameworks/Tools:

Vue | React/Node.js | Git | MATLAB  
SciPy | NumPy

## Education

**Lewis University** | BS in Computer Science | GPA (3.4/4)  
May 2018 | Romeoville, IL

## Awards and Positions

Dean's List

Best Buy Award of Excellence

Cyber-Security Group Member

LU LaSallian Grant

Tutor/Judge, Robotic Engineering Challenge for High School Students, Joliet Junior College

## Projects

### Computer Infrastructure Capstone Project | Computer Networking

I worked with three other students in the design, implementation and testing of a medium-to-large networked computer system for a not-for-profit community organization. Additionally, we covered topics in professional ethics, intellectual properties, privacy and professional communication.

### Swiss Army Knife Application | Java

A Java developed program focusing on the use of Object-Oriented Programming to pull data from a given URL using a single thread or multi-threading.

### Python Buffer Overflow | Python on Kali VM with FreeFloat STP Server

A Python script designed to establish an FTP connection to a server running on a Windows VM to identify the vulnerability to the buffer overflow exploit. Using the exploit, the script is able to inject a shellcode to allow for remote access on the targeted FreeFloat STP Server.

### File Encryptor | Java

Java developed app used to encrypt any given text file using four different encryption methods.

### SSH Brute Force | Python

A Python script designed to brute force into a given host using passwords from a given list or by generating its own passwords. Once there are three incorrect attempts, the connection is dropped and it attempts to reinitialize the SSH connection.

## Experience

Oct 2014 -

**Inventory Specialist/Sales Associate**

Best Buy

Present

- Oversaw back of store logistical operations.
- Trained two to three new employees quarterly and ran a team of up to five.
- Prepared and filed credit card application into our database and contacted the bank when necessary.
- Accurately and efficiently logged all daily shipping and receiving orders in database.
- Worked with clients in person and over the phone to evaluate personal computing needs.

June 2013 -

**Service Clerk**

Jewel-Osco

Oct 2014

- Assisted customers with resolving store and product complaints.
- Processed roughly 50 cash/credit transactions per shift.