

# Lenin Estrada

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## EDUCATION

**Northwestern University**, Evanston, IL

Robert R. McCormick School of Engineering and Applied Science

Bachelor of Science – Computer Science; September 2016 - June 2020 (Expected)

**GPA:** 2.965 (Cumulative); 3.531 (Major)

**Relevant Coursework:** Operating Systems, Networking, Machine Learning, Data Structures, Discrete Mathematics, Internet Security, Digital Forensics, Network Penetration & Security, Algorithms, Scalable Architectures (AWS)

## RELEVANT EXPERIENCE

\*Internships below were once/twice a week during the time frames

**Huron Consulting Group**, Chicago, IL

Aug. 2014 – June 2015

*IT Technical Support Intern*

Aug. 2015 – June 2016

- Communicated problems and solutions to team members and non-technical audiences to help resolve software-related issues with client devices
- Fulfilled equipment movements and replacements across the company for endpoint devices and related equipment as required
- Ensured compliance of endpoint equipment and delivery standards in accordance with IT department guidelines
- Utilized MS Office Suite tools (Word, Excel, Outlook) to complete data entry tasks related to endpoint hardware management
- Operated as a Spanish interpreter for Spanish-speaking clients

**Morgan Stanley**, Chicago, IL

Aug. 2013 – June 2014

*IT Intern*

- Ensure proper security protocols were implemented with returned endpoint devices and sensitive information contained therein
- Provided technical support to employees from various divisions across the company and projects as required
- Utilized basic and advanced troubleshooting techniques to solve various software-related issues
- Ensured organization of inventory for quick retrieval of essential tools and endpoint devices needed to resolve software and hardware related client issues
- Troubleshoot and resolve mobile device issues (iPhone and Blackberry models)

## PROJECTS

### AWS News Importer

- Designed & implemented a RESTful API to create a basic news search engine using Java and AWS that downloads latest common crawl news articles, streams more than 100,000 documents to an Elasticsearch index, and displays the results to the user. Demo: <https://streamable.com/u40k89>

### ETW Real-Time Detector

- Extended the current capabilities of MORSE, an IDS capable of detecting Advanced Persistent Threat (APT) campaigns in real-time while generating a compact scenario of suspicious events by implementing tag decay and tag attenuation functionality, as well as propagation policies to further mitigate false positive dependency explosions

### xv6 OS

- Implemented system calls to extend functionality on the xv6 operating system such as file system tagging, threading, copy-on-write fork, and ps shell command using the C programming language

### Instagram Scraper

- Designed a quick way to download and scrape data from an Instagram post, as well as automate various functionalities such as following, liking, and commenting on user posts to organically grow account followers

### PDFuse

- Developed a utility tool using Python for PDF file manipulation (i.e. users can merge, extract, delete, parse, convert, sign, encrypt, and edit singular or multiple PDF files)

## ACTIVITIES

- **Codeforces.com** – Solved various coding problems each week to polish programming skills and learn more advanced techniques in areas such as dynamic programming, graph and number theory, data structures, and algorithms. Currently solved more than 80 problems using C++

## TECHNICAL SKILLS

- **Programming/Scripting:** Python, C++, C, MATLAB, bash, HTML, CSS, JavaScript, Ruby, Java, x86 Assembly
- **Libraries/Frameworks:** Selenium (WebDriver), bootstrap, Maven, Flask
- **Cloud:** AWS (EC2, S3, EB, ES), Heroku, Google Cloud
- **Other:** John the Ripper, Volatility, Linux, Wireshark, Nessus, Nmap, Metasploit, VirtualBox, VMware, Git, Anaconda

## FOREIGN LANGUAGES

- Spanish (Native), French, Japanese, German (Intermediate), Polish, Russian (Elementary)