

# Lenin Estrada

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Dedicated software developer with a focus in cybersecurity. Seeking to refine web development skills in a frontend, backend, or full stack software developer role. Penetration Testing, ISA, and IT Security Engineer roles are also desired.

## **EDUCATION**

**Northwestern University**, Evanston, IL

Robert R. McCormick School of Engineering and Applied Science

Bachelor of Science – Computer Science; September 2016 - June 2020

**GPA:** 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**

\*Indicates internships were once/twice a week during the time frames

**Northwestern University**, Evanston, IL

Jan. 2019 – June 2020

*Junior Full Stack Software Developer*

- Developed single and multi-page full-stack web applications leveraging Python, Flask, React.js, AWS (S3, EC2, EB), & Heroku to fulfill user needs
- Designed and implemented RESTful services to simplify various user tasks
- Actively maintained and updated delivered applications to ensure best practices and minimize bugs
- Conducted periodic security audits using various pentesting tools to fix security issues and prevent malicious attacks
- Built unit testing infrastructure using Selenium Webdriver to simulate and validate various user behaviors
- Employed and modified existing JS libraries (i.e. Granim.js, PDF.js) to achieve custom site functionality & appearance

**\*Huron Consulting Group**, Chicago, IL

Aug. 2015 – June 2016

*IT Technical Support Intern*

Aug. 2014 – June 2015

- Communicated problems and solutions to team members and non-technical audiences to help resolve software-related issues with client devices
- Fulfilled movements and replacements across the firm for endpoint devices and related equipment as required
- Utilized MS Office (Word, Excel, Outlook) to complete data entry tasks related to endpoint hardware management

**\*Morgan Stanley**, Chicago, IL

Aug. 2013 – June 2014

*IT Intern*

- Led implementation of proper security protocols with returned endpoint devices and sensitive information contained therein
- Utilized basic and advanced troubleshooting techniques to provide technical support to employees from various divisions across the company
- Maintained organization of inventory for quick retrieval of essential tools and endpoint devices needed to resolve software and hardware related client issues

## **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.

**APT 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.
- Modifications consisted of implementing tag decay and tag attenuation functionality, as well as propagation policies to further mitigate false positive dependency explosions

**Articulate**

- Designed a conceptual UI/UX design for a modern language-learning platform which users can extend and customize to fit their own language-learning objectives

## **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

## **TECHNICAL SKILLS**

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

## **FOREIGN LANGUAGES**

- Spanish (Native), French, Japanese, German (Intermediate)