

**Zeyuan Xu**  
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## **Education**

**University of California, Los Angeles, 2013-2018**

**Bachelor of Engineering in Computer Science & Engineering with minor in Mathematics**

## **Links:**

- Github: <https://github.com/heraclixus>, <https://github.com/xuzeyuanfred>
- LinkedIn: <https://www.linkedin.com/in/fred-xu-heraclitus>

## **Skills:**

- **Programming Languages:** C, C++, Python, R, Java, Shell, Ruby, HTML, CSS, Matlab/Octave, Lisp, Ocaml, Verilog, MIPS, x86 assembly, Swift, Latex.
- **Machine Learning:** regression, decision tree, PCA, SVM, KNN, DBSCAN, GMM, CNN.
- **Operating Systems:** Ubuntu Linux, Kali Linux, Windows 7, 10, XP, OS X Maverick and up.
- **Cloud Computing:** AWS, Google Cloud, Floydhub.
- **Software Tools:** Emacs, Jupyter Notebook, Git, GDB, Immunity Debugger, Rstudio, VMware, Virtual box, Docker, Metasploit, Nmap, Wireshark, OpenVAS, Texmaker.
- **Certifications:** Security+, OSCP.

## **Projects:**

**Malware Classification:** **2017 Sep – present**

- Ongoing machine learning project to classify malware samples
- Expect high accuracy to classify malware from Microsoft Big 2015 datasets

**Intel Edison Local Weather Station:** **2016 Sep – Oct**

- Implemented a TCP-like UDP protocol for communication
- Use Intel Edison and temperature/humidity sensor as the weather station
- Transfer sensor reading from station to local desktop server via the protocol

**Book Antenna:** **2016 March**

- Designed and implemented iOS App with sqlite backend & iTunes API
- Able to download sample audio books and music from Apple

**File System Dumper:** **2017 March**

- Implemented a memory dumper in C to read and process data from ext4 file system

**Twitter Mining: Stock Market Prediction** **2017 Sep-Dec**

- Data mining project: predict daily stock market with twitter mining based sentiment analysis.

**Python-security:** **2017 Sep-Present**

- Ongoing project implementing and researching on CVE exploits in python.
- Customizing public available exploits written in Perl and Ruby and rewrite in python.