

# Xinghua Pan

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🌐 xhorn-pan

</> Python, C/C++

## EDUCATION

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- **University of Florida** Gainesville, Florida  
*Master of Science in Computer Engineering; GPA: 3.85* Jan. 2019 – Dec. 2020  
Courses (Spring 2019): Advanced Data Structures, Analysis of Algorithms, Math for Intelligent Systems.  
(Fall 2019): Machine Learning, Programming Language Principle, Computer Architect Principle.  
(Spring 2020): Embedded Systems, Advanced System Programming, Reconfigurable Computing.  
(Fall 2020) Distributed Operating System Principles.
- **China University of Petroleum** Beijing, China  
*Master of Science in Computer Science & Engineering; GPA: 8.4/10.0* Sept. 2009 – July. 2012
- **Sichuan University** Chengdu, China  
*Bachelor of Science in Applied Chemistry; GPA: 7.8/10.0* Sept. 2003 – July. 2007

## EXPERIENCE

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- **Elex Technology** Beijing, China  
*Software/System Engineer* Jan 2012 – April 2016
  - **FullStack development:** A Website for IT asset and project management. Utilized Python and AngularJS; used by both on-call team and developer teams.
  - **System Monitoring:** Service for sending email and SMS notifications; Utilized Nagios and Ganglia; helped to increase monitor coverage by 30+%;
  - **IT Budget and Audit:** A tool integrated Softlayer API and export Excel to report IT cost and in-game pay-log.
  - **OpenStack cluster:** Build and maintain a cluster that supporting different developer groups.
- **Petropark Co., Ltd** Beijing, China  
*Software Engineering Intern* Sept. 2010 – Dec. 2011
  - **Linux Administrator:** Java programming and environment management on openSUSE.

## PROJECTS

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- **A Tweet-like Engine:** The engine utilized Akka.Net Cluster and FSharp; build a JSON based API using WebSharper with WebSocket interface
- **Red-black tree:** C++ implementation for class: Advanced Data structure.
- **Lua interpreter(subset):** Java implementation for class: Programming Language Principle.
- **Cache Timing and Meltdown attack:** For class: Computer Architecture Principle.
- **Machine learn model (VAE and GAN) training:** Tensorflow based implementation on a subset of VGG2 dataset, for class: Machine Learning.
- **Wechat jump(mini game) bot:** A python script using OpenCV object detection and Android ADB.
- **Archlinux Setup:** Blog that gives instructions on Archlinux installation and develop environment setting up on Dell XPS 15 9560.

## SKILLS

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Programming Languages: (Proficient) Python, C/C++

(Familiar) Java, Javascript, Go, Rust, SQL, F#, VHDL

Frameworks and tools: Git, Tensorflow,  $\LaTeX$ , Qt, Flask, Angular, Bootstrap, OpenStack, Akka.net