

Xinghua Pan

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🌐 xhorn-pan

</> Python, C/C++

EDUCATION

- **University of Florida** Gainesville, Florida
Master of Science in Computer Engineering; GPA: 3.83 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

SKILLS

Programming Languages: (Proficient) Python, C/C++, Java; (Familiar): Javascript, Go, Rust, SQL, F#
Frameworks and tools: Git, Tensorflow, \LaTeX , Qt, Flask, Angular, Bootstrap, OpenStack, Akka.net

EXPERIENCE

- **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

- **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.