Xinghua Pan

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xhorn-pan

</> Python, C/C++

Education

- **University of Florida** — Gainesville, Florida
  Master of Science in Computer Engineering; GPA: 3.85 — *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*

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 dectection and Android ADB.
- **Archlinux Setup**: Blog that gives instructions on Archlinux installation and develop environment setting up on Dell XPS 15 9560.