Cong Fu

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WORK EXPERIENCE

JUL 2017 – NOV 2017

Transwarp

Machine Learning Intern

Main responsibility:
1. Time series operator developing. Based on spark, operators such as auto-regression, moving-average and other time series algorithm were implemented for MIDAS (a machine learning platform).
2. Jenkins health maintaining. Arrange build/test jobs in Jenkins.
3. Version controlling. Make sure MIDAS, which basically based on spark supports different version of Hadoop, Hbase and other related project. Besides, an auto version marking script was developed to prevent inconsistence between testcase and software.

FEB 2016 – NOV 2016

Cisco Reasearch Department of China(CRDC)

IOT Intern

Main responsibility:
1. Auto-testing script. Develop auto-testing script for router/switch under roaming circumstance.
2. A demo LORA system. Maintaining sensor/gateway transport protocol related code and developing web GUI.
3. Bug fixing. Fix bugs for router/switch system.

PROJECT

2017 – Now

Master thesis

Auto trading system

Based on reinforcement learning theory, the goal of this project is to develop a profitable trading system under a more real circumstance.

2015 – 2016

Bachelor graduating thesis

Computer aided 3D-reconstruction of human blood vessels

Based on image processing and RayCasting theory, a 3D vessel/bone model of human chest could be reconstructed from a set of slice images like CT.

2014

Course experiment

32-bit MIPS CPU and Applications

A 32-bit CPU with interruption which can run 64 mips instructions was designed using verilog. NEXYS3 platform was used to synch & run code.

2014

Course experiment

File system

A linux-similar file system was designed. Commands such as ls, cp, mkdir, cd, read, write, ln were supported.

DURING COLLEGE TIME

Others

Projects for different courses

HTMl based database, Handwritten number detection, Tic-Tac-Toe...

EDUCATION

2016 – Now	**Master of Computer Science** ACADEMY OF ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING *Tongji University*
2012 – 2016	**Bachelor of Computer Science** ACADEMY OF ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING *Tongji University*

AWARDS

2015	**First-class Scholarship of Tongji University** *Tongji University*
2015	**Second-class Scholarship of ENN Energy** *ENN Energy Holdings Limited*
2014	**Second-class Scholarship of Tongji University** *Tongji Unviersitys*

SOFTWARE SKILLS

GOOD LEVEL	C, Python, Git, Linux
INTERMEDIATE	Java, Scala, SQL, Matlab
BASIC LEVEL	Shell, C++, HTML, Verilog
OPEN-SOURCE PROJECT	Docker, Spark, Hadoop, keras, tensorflow, Django, flask ...

傅聪

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工作经历

七月 2017 – 十一月 2017

星环科技有限公司
机器学习实习生

主要工作：
1. 时间序列算子开发。为基于 Spark 的机器学习平台 MDIAS 开发时间序列数据处理算子的开发，包括自回归、移动平均等算法。
2. Jenkins 健康维护。合理分配集群，规划、监控 Jenkins 上的编译、测试等任务。
3. 版本控制。保证 MIDAS 如对外宣传的那样，支持不同版本的 Hadoop、Hbase 等相关平台。此外，编写版本标定脚本，保证测试软件与测试数据版本的一致。

二月 2016 – 十一月 2016

思科系统中国研发有限公司 (CRDC)
实习生

主要工作：
1. 自动化测试脚本。为漫游场景下交换机与路由器的连接编写测试脚本。
2. LORA 演示样例。负责 web GUI 的开发，同时维护 sensor 与 gateway 的交互代码。
3. Bug 修复。根据在不同使用场景中暴露出的问题，修复交换机与路由器的 Bug。

项目经历

2017 – 现在

硕士论文
自动化交易系统

以增强学习理论为基础，设计一个在实际情况下能够获得收益的自动化交易系统。

2015 – 2016

本科毕业论文
人体血管的三维模型重建

基于图像处理与光线跟踪算法，从人体胸部界面图象（CT）中重建血管与骨骼的三维模型。

2014

课程实践
基于 *MIPS* 指令的 *32* 位 *CPU* 及其应用

使用 verilog 设计一个 32 位，可以运行 64 条 mips 指令，带中断功能的 CPU。使用赛灵思 NEXYS3 平台进行综合及下板测试。

2014

课程时间
文件系统

一个类 Linux 文件系统，支持 ls,cp,mkdir,cd,read,write,ln 等 linux 基本文件操作指令。

大学期间

其他
不同课程的项目

基于 HTML 存储的数据库，手写数字识别，井字棋游戏。。。

教育经历

2016 – 至今	计算机科学硕士 电子与信息工程学院 同济大学
2012 – 2016	计算机科学本科 电子与信息工程学院 同济大学

荣誉

2015	同济大学一等奖学金 同济大学
2015	新奥能源二等奖学金 新奥能源有限公司
2014	同济大学二等奖学金 同济大学

技能

熟练	C, Python, Git, Linux
一般	Java, Scala, SQL, Matlab
基本	Shell, C++, HTML, Verilog
开源项目	Docker, Spark, Hadoop, keras, tensorflow, Django, flask ...