# 葉家郡

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| Taipei, Taiwan |  |

Experienced, skilled programmer, hands-on experience in UNIX programming and command-line interface environment. Strong problem solving skills. Focus on high availability and fault tolerant distributed system technologies now.

## Working Experience

Jun 2017-Present

**Taipei Exchange**

*Software Engineer*

core systems development and maintenance. excellent problem solver.

* Provided software security advice and design on new system architecture.
* Introduced RPM Package Manager into system installation procedure, reduced 40% time for building new machine.
* Analyzed receiving multicast packet loss problem, peak loss rate reduced from 50% to 0.2%.
* Developed new message dispatch gateway and conducted secure file transfer method to replace plain design for Web client.
* Researched distributed system and consensus algorithm, proposed next generation online transaction processing system design based on application-level approach.
* Developed networking failure simulation framework for testing.
* Developed system testing framework with FIX protocol.
* Imported and shared doxygen to deal with auto document generation.
* Optimized old continuous data transfer system to 110 times faster and solved several race condition bugs,developed a cross platform new one by event-driven design with backward compatible.

Sep 2015-Apr 2017

**NCTU Information Technology Service Center**

*Part-Time Software Engineer*

full-stack web development.

* Migrated 4 mail services and thousands of accounts to Google G Suite service and developed NCTU G Suite mail system using the microservice architecture.
* Developed firewall plugin system integrates WAF with switches.

## Education

2015-2017

**MSc, Institute of Computer Science and Engineering** National Chiao Tung University

Thesis title: MCTS-based Path Exploration for Symbolic Execution

Teaching Assistant: Basic Programming

Relevant coursework:

* Software Testing
* Operating System
* Parallel Programming
* Advanced UNIX Programming
* Network Security
* Network Programming

2011-2015

**BSc, Computer Science** National Taichung University of Education

Teaching Assistant: Programming

## Skills

Computer Science

* Symbolic Execution
* Distributed System
* Performance Tuning
* Software Security

Computer Programming

* Linux Programming
* Network Programming
* System Software

Tools

* gdb, git, unix cli, vim, gnu make

Programming Languages

* **Proficient:** C/C++, Bash Shell Script
* **Intermediate:** PHP (Laravel), C#

## Awards

May 2015

**Taiwan Student Cluster Competition**

Led a team to won 3rd prize. Constructed and tuned high performance computing cluster with GPUs and InfiniBand.