Lu Shengliang

github.com/lushl9301
medium.com/@Lu_Shengliang
SLU001@e.ntu.edu.sg
(+65) 9611-5113

Education

B.Eng. Computer Engineering — GPA 4.53/5.00 *Anticipated Graduation: May, 2016*
Nanyang Technological University, Singapore

Experience

Wincor Nixdorf Internship, Development of Secure Thin Client for ATM *Dec 2014 - Now*

- Modified and installed XtratuM Hypervisor on x86 PC
- Developed Linux USB device driver
- Developed ATM client using C++/Qt GUI
- Got familiar with microkernel verification / Security issue

URECA Project, Study of Healthcare and Wellness Science using Wearable Sensors through Scientific Literature Approach *Sep 2014 - Jul 2015*

- Attached to Sense and Sense-abilities Programme (A*star I^2R)
- Designing text mining tools using Perl & Python for analyzing thesis abstracts
- Regex & Simple Data Structures

Contestant, 2013 ACM-ICPC Asia Jakarta Regional Contest *Oct 2013*

- Java Programming Language
- Participated representing School of Computer Engineering NTU
- Solved 3 problems (in team)

Contestant, National Olympiad in Informatics, China *Jul 2010*

- Pascal Programming Language
- Solved algorithm problems under Linux environment
- Bronze medalist

Contestant, National Olympiad in Informatics in Provinces, China *2006 - 2011*

- Pascal Programming Language
- Solved algorithm problems under Windows environment

Coursework Highlights

- Managed an on-line invigilation software development
  - Agile Project Development Manager
  - Programmed software server in Java
  - Multithreaded, Asynchronous Server

- Built a robotic system that can autonomously explore and traverse unknown areas (in a team of eight)
  - Chief Arduino Engineer/Hardware Leader
  - Designed exploration algorithm & obstacle dectection algorithm
  - Arduino programming, Motor control, Sensor detection
- Used Verilog to implement a five-stage pipelined CPU with MIPS instruction set under simulation
  - With harzard detection & data forwarding
  - Enhanced with static brunch prediction & out-of-order excecution
- Implemented TLB based on understanding of Operating System concept
  - Searching & replacing algorithm
  - Nachos (C++ version) OS environment
- Designed and constructed a blood pulse wave data acquisition system
  - Signal conditioning, data acquisition
  - Used MATLAB for post processing & graphic display

Leadership Activities

Vice President, NTU CAC, Dragon & Lion Dance Troupe *Aug 2013 - May 2014*

Founder & Leader, ACM-ICPC Asia Jakarta Regional Contest team "FSM" *Oct 2013*

Skills

Programming: C/C++, Java, Python, Perl, Shell, Assembly, Verilog, Pascal, LaTeX, MATLAB, Haskell

Operating Systems: Linux full-time user, Windows

Applications: Emacs, Git, Eclipse, Sublime Text, Make, Xilinx, ModelSim, Vim, NetBeans

Hardware Platform: Arduino, ARM Cortex development board, FPGA