Yuanzhi LIANG

Shenyuan Honors College of

Beihang University

B.S. Computer Science
(3.7/4.0)

Connect

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Github: github.com/tonnylyz

Education

Beihang University
Sept 2015 – July 2019
Shenzhen Middle School
Sept 2012 – July 2015

Interest

Computer Architecture
Operating System / Kernel
Machine Learning
Web Development

Skills

Language
C# | C++ | C | Java | Python
Hardware design
FPGA | Verilog HDL
Mini OS Kernel design
ARMv8 | Bare-metal
Machine Learning
NN | Keras
Web Full Stack
Asp.net | Nodejs
Database Programming
SQL Server | MySQL | PostgreSQL

Brief

Yuanzhi Liang is a current undergraduate student at Beihang University majored in Computer Science. He is also a student who graduated from Shenzhen Middle School in China. Not only does he have a broad horizon on software development especially web app, he also a laid solid foundation for computer system knowledge and have an abundant hands-on experience during the study in college course. His interest lies in system software design, machine learning and web application development.

Coursework

C Language Programming (100) | Computer Structure (92/Lab 100) | Operating System (87/Lab 89) | Database (97) | Compiler (88) | Introduction to Machine Learning (92) | Introduction to Data Mining (99)

Experiences

Teacher Assistant @ Operating System Lab Course   *Feb 2018 - present*
* Working in OS TA team, a student teaching assistant advisor team consists of serval outstand undergraduates.
* Designing challenge tasks for student to implement a small Operating System kernel running on Raspberry Pi.
* Team introduction: scse.buaa.edu.cn/bkspy/bkspy/S_T_A_Rjftdbps_.htm

MIPS System Design (personal project)   *June 2016*
* Designed a pipeline-design MIPS system from scratch using Verilog HDL.
* Modified it to fit and run on a Spartan FPGA with UART I/O.
* Project Source: github.com/tonnylyz/MIPS-CPU-FPGA

Founder @ SZMS Student Activity Association Web Dept   *Sept 2013 – June 2014*
* Worked on building website for school's New Year's Gala, School Top-10 Singer Competition, SAA Official website and SAA collaborative platform (SAAO).
* Taught classes of web development and programming.
* Website: xuehuo.shenzhong.net

Member @ SZMS FORMS   *June 2014 -Jan 2017*
* FORMS is a team of 20 students aiming to reconstruct their high school campus in Minecraft world.
* Worked on deploying game server integrated with account database enabling collaboration for teammates and online Minecraft school sightseeing for students.
* Made 3D printing model of school building and sold it in SZMS New Year's Gala 2017.
* Website: forms.ms

Side Projects

* Raspberry Pi 3 bare-metal Operating System: github.com/tonnylyz/Raspberry-Pi-3-JOS
* C-like syntax compiler: github.com/tonnylyz/TCC
* Collaborative website for SAA: github.com/Xuehuo/SAA-Online
* Class website: github.com/tonnylyz/CAS

Awards

* 3rd Place team @ BUAA Cyber Security Capture the Flag Competition (June 2017)