

# Peifeng Yu

## Curriculum vitae

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### EDUCATION

PRESENT **M.S. in Computer Science and Engineering**  
*University of Michigan, USA*

2015 **B.Eng. in Software Engineering**  
*Xi'an Jiaotong University, China*

### SOFTWARE SKILLS

LANGUAGES C++, Python, Java, C#, ~~LaTeX~~,  
Shell, HTML/CSS/JS, Haskell

TOOLS git, Clang/LLVM, LLDB, GDB,  
MySQL, Subversion

LIBRARIES Qt, KDE, numpy, matplotlib

### REWARDS

2014 **Google Excellent Scholarship**  
*\$1500, only one in XJTU*

2014 **Meritorious Winner**  
*Interdisciplinary Contest in Modeling*

2013 **Silver Medal of the ACM-ICPC**  
*Asia China Shaanxi Provincial Programming Contest*

2013 **Fuji Xerox (China) Scholarship**  
*RMB5000, 4 from top 20%*

2012 **"Lu Shidi" Scholarship**  
*RMB6000, 2 from top 10%*

### PROJECT EXPERIENCE

MAY 2016 – AUGUST 2016

Google Summer of Code

#### LLDB Support for KDevelop

Software development for KDevelop (kdevelop.org) from KDE community: LLDB debugger backend for KDevelop that enables debugging C/C++ programs in KDevelop using LLDB. Architectural improvements to KDevelop C/C++ debugger to allow choosing between multiple debugger backends.

Project page: <https://goo.gl/F6JsQd>

Final report post: <https://goo.gl/8uTdi3>

SEPTEMBER 2015 – DECEMBER 2015

Advanced Compiler course project

#### Software Low Power Mode

Worked in a group of 4 people. Designed a runtime power saving optimization platform that can re-compile program to use more power efficient instructions at runtime, with minimal overhead. Implementation based on Protean code which is a runtime recompiling framework.

Protean code paper: <https://goo.gl/y3UBsP>

NOVEMBER 2013 – JUNE 2013

Software Project Management course project

#### Pixel Cube Game for LeapMotion

Worked in a group of 8. 3D pixel painting using hand gestures, powered by LeapMotion and Microsoft WPF. Developed the in-game 3D menu that can be triggered by sliding figures downwards.

Project page: <https://github.com/Aetf/PixelCube>

JULY 2012 – SEPTEMBER 2013

NSKeyLab (<http://nskeylab.xjtu.edu.cn/site/lab/>)

#### Security-Enhanced Android

One year research program in the Lab. Focused on the implementation of multi-domain data separation. Ported the SELinux policy compile tool chain to Android (4.2) platform. Implemented domain management and storage system service in both native user space and Android framework.

MAY 2012 – JULY 2012

Microsoft Student Technology Club

#### Mouse Control using Kinect

Early exploration of UI opportunities offered by 3D sensor Kinect. Developed algorithm to smooth mouse movement by mapping hand movement into a cylinder surface. The algorithm can adapt to different body parameters.

Project page: <https://github.com/Aetf/KinectControl>

2012 – PRESENT

KDE, Mozilla and others

#### Open Source Contribution

Implemented recover instruction for multiple MIR instruction in JIT engine in Mozilla Firefox. Fixed bugs in KDevelop GDB debugger backend. Contributed to open source projects on GitHub: Mono, kmscon, CuteMarkEd, hid-apple-patched, DynamicTextures.