

Shu-Wei (Wayne) Hsu

1400 Bowe Ave #1209, Santa Clara, CA 95051 (530) 601-3858 shwhsu@ucdavis.edu

EDUCATION

- **M. S. in Computer Science** at *University of California, Davis* 09/2012 – 12/2014
- **M. S. in Electrical Engineering, Computer Science Group** at *National Taiwan University, Taiwan* 09/2007 – 06/2009

WORK EXPERIENCE

- **Quanta Innovation Center, Quanta Computer Inc.**, Android Developer 07/2009 – 05/2012
 - Android OS/SDK, Android App/Service/Widget Development, Framework Customization, and GMS Integration, IM.
 - Collaborated with UI/UX design team to build responsive viewing experience on devices with different resolution and dpi.
 - Optimized applications by communicating well-divided UI and work threads/components following MVC model to enhance product performance and user experience.
 - Customized Android UI framework of devices for different markets from Éclair to Honeycomb.
- **Yen Tjing Ling Industrial Research Institute, NTU**, Assistant Lecturer 06/2009 – 05/2012
- **Digital Education Institute, Institute For Information Industry**, Assistant Lecturer 06/2009 – 05/2012
 - iPhone (iOS) Basic/Advanced Application Development Program
 - Objective-C, MVC-Model, Design Pattern, NS* class, Key-Value Coding, View Elements, Gestures and Touch Events, Core animation, and OpenGL, Core Data, SQLite, Property List, File System, Languages, Web Applications.
 - 50+ tutorials for iOS application development, including basic concepts, software structures, and implementation details. Gave lectures and instructed students to solve problems of extended programming examples.
- **iPhone Application Programming/Development**, “Dr Soul” at App Store (Taiwan Only) 06/2011
<http://itunes.apple.com/app/dr-soul/id420397376?mt=8>
- **Android Application Programming/Development**, “FantaisieCAM” at Android Market 01/2012
<https://market.android.com/details?id=com.fantaisie.camera> And Blackberry Market
- **OLPC Business Unit, Quanta Computer Inc.**, Intern 07/2008 – 09/2008

SPECIALITIES

Fields: Computer Graphics, Visualization, Big Data Analysis, Mobile/Embedded App Development, HCI
Programming: C, C++, System-C, Objective-C, Java, Verilog, HTML, CSS, Javascript, Python, Latex
Operating Systems: Linux, uCLinux, OS/2, Mac OS, iOS, Android, Win XP/7/8, WinCE
Database/Data structures: Core data, MySQL, SQLite, Property List (MacOS, iOS), XML, Json
Frameworks/libraries: QT, Cocoa, Cocoa Touch, Android Frameworks, D3.js, THREE.js, Node.js
Graphics/Animations: Core Animation, OpenGL, OpenGL ES, SVG
Applications/IDE: Xcode, Eclipse, Altera Quartus II, ModelSim, CorelDRAW, QT, IntelliJ IDEA, Pycharm, Git, SVN
Others: Regular Expression, ICE, Electrics, Electronics, Automatic Control

RESEARCH EXPERIENCE AND SCHOOL PROJECTS

- **A Visual Approach for Name Disambiguation in Coauthorship Networks** 02/2014 – Current
Sociology Department with Vidi Lab, Computer Science, UC Davis (paper submission to PacificVis)
- **ITS Trip Logger - An Innovative Driver Identification Approach for Data Collection** 04/2014 – Current
Institute of Transportation Studies with Vidi Lab, Computer Science, UC Davis
- **Taiwan Stock Market Transaction Analysis and Visualization** 03/2013 – Current
Academia Sinica with Vidi Lab, Computer Science, UC Davis
- **Production Line Data Visualization** 10/2013 – 12/2013
Industry collaborator with Vidi Lab, Computer Science, UC Davis
- **Network Security SoC Design** 09/2007 – 06/2009
Axtronics with PEC Lab, Graduate Institute of Electrical Engineering, NTU
 - Network Intrusion Detection for Snort 2.4, 2.6, 2.8 (With Hardware Acceleration)
- **Teaching Assistant** 09/2007 – 12/2008
Embedded Linux Implementation Program, Yen Tjing Ling Industrial Research Institute, NTU
 - Embedded Linux, Kernel, Drivers, Applications, File System, and QT

PUBLICATIONS

- Master Thesis, Shu-Wei Hsu and Sheng-De Wang, “A Fast Two-Phase Multi-Character Dynamically Reconfigurable Regular Expression Matching Architecture”, 2009.
- Proofreader of “**Objective-C 與 iOS 開發入門**” (Introduction of Objective-C and iOS Development, ISBN: 9789866432361) by Michael Pan <http://www.blueocean.com.tw/BookArea-bookdetail.asp?SN=BO1201>

GPA

- Graduate Grade (Master Degree at University of California, Davis) Average GPA 3.61/4.0
- Graduate Grade (Master Degree at National Taiwan University) Average 86/100 (GPA 3.89/4.0)

PERSONAL LINKS

- LinkedIn: <http://www.linkedin.com/in/swhsu/>
- Homepage: <http://wayne.cs.ucdavis.edu>
- iOS Development Tutorials (GitHub): <https://github.com/fantaisie64/iPhone-Development-Program>