Shu-Wei (Wayne) Hsu

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EDUCATION

- **M. S. in Computer Science** at *University of California, Davis*   *09/2012 – 12/2014*
  - GPA 3.61/4.0
- **M. S. in Electrical Engineering, Computer Science Group** at *National Taiwan University, Taiwan*   *09/2007 – 06/2009*
  - GPA 3.89/4.0 (86/100)

WORK EXPERIENCE

- **Quanta Innovation Center, Quanta Computer Inc.**, Android Engineer   *07/2009 – 05/2012*
  - Android OS/SDK, App/Service/Widget Development, and GMS Integration, IM.
  - UI Framework Customization for different markets from Éclair to Honeycomb.
  - 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.
- **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.
  - Lectures and 50+ tutorials for iOS development, including basic concepts, software structures, and implementation details.
- **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
- **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:	Java, C, C++, Objective-C, System-C, HTML, CSS, Javascript, Python, Latex, Verilog
Database/Data structures:	Core data, MySQL, SQLite, XML, Json, Property List (MacOS, iOS)
Frameworks/libraries:	QT, Cocoa, Cocoa Touch, Android Frameworks, D3.js, THREE.js, Node.js, jQuery, Ajax
Graphics/Animations:	Core Animation, OpenGL, OpenGL ES, SVG
Operating Systems:	Mac OS, iOS, Android, Linux, uCLinux, Win XP/7/8
Applications/IDE:	Xcode, Eclipse, QT, IntelliJ IDEA, Pycharm, Git, SVN, Altera Quartus II, ModelSim, CorelDRAW

RESEARCH EXPERIENCE AND SCHOOL PROJECTS

- **ITS Trip Logger - An Innovative Driver Identification Approach for Data Collection**   *04/2014 – Current*
  Institute of Transportation Studies, UC Davis
- **A Visual Approach for Name Disambiguation in Coauthorship Networks**   *02/2014 – 12/2014*
  Sociology Department with Vidi Lab, Computer Science, UC Davis
- **Taiwan Stock Market Transaction Analysis and Visualization**   *03/2013 – 06/2014*
  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
- **Teaching Assistant**   *09/2007 – 12/2008*
  - Operating Systems, *UC Davis*
  - Embedded Linux Implementation Program, Yen Tjing Ling Industrial Research Institute, *NTU*

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 "Introduction of Objective-C and iOS Development" by Michael Pan (ISBN: 9789866432361).

PERSONAL LINKS

- LinkedIn: http://www.linkedin.com/in/swhsu/
- Homepage: http://vis.cs.ucdavis.edu/~waynehsu/
- GitHub: https://github.com/fantaisie64/