August L. Joki

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Career Interest: Making great apps for mobile and embedded platforms that people love to use**.**

Work Experience:

• iOS Developer at Black Pixel *January 2011 to Present*
Worked on highly polished and successful AppStore iOS apps for big and small companies.

• Member of Technical Staff at shopkick *January 2010 to January 2011*
Main UI programmer for the Causeworld and shopkick apps. Wrote custom UI controls to replace Apple's basic controls and significant Core Animation polish.

• iPhone Application Freelancer *March 2008 to January 2010*
Written and contributed to several applications that are or will be in the iTunes App Store.

• Research Intern at Nokia Research Center Palo Alto *March 2008 to March 2009*
Research in Social Proximity Networks including indoor based locationing, context sharing, and ad-hoc file transfer, using phones under Péter Boda.

• UCLA Graduate Student Researcher in CENS *September 2005 to March 2008*
Graduate research in wireless sensor networks and urban sensing at the Center for Embedded Networked Sensing under Deborah Estrin.

• Intel Research Berkeley Summer Intern *June to September 2006*
Designed and built a software architecture for Symbian smartphones using J2ME as part of the Urban Atmospheres project under Eric Paulos.

• UC Berkeley Senior Engineering Assistant *January 2004 to July 2005*
Undergraduate research in the NEST group working on simulations of wireless sensor networks under David Culler.

• Vector Marketing Sales Representative *June to August 2002*
Sold merchandise for a $200 million annual revenue company.

• College of Chemistry Assistant Webmaster *September to December 2001*
Helped maintain the website, created new pages, and researched new software for use with the website.

• Labcon intern as Network Administrator Assistant *June to December 2000*
Set up new computers. Installed new hardware. Troubleshot computer problems.

• Autodesk intern as Webmaster *January to June 2000*
Maintained, updated, and created websites using ASP for the Community Relations department.

Applications:

• **Coolist 1.5** *iPhone*
Wrote the 1.5 update from the 1.0 version. Includes a shakable snow globe and ability to search for other users based on facebook ids and email addresses.

• **Jive SBS Mobile** *iPhone*
Worked with a small team to implement the entire app. Includes custom UI controls and Core Data persisted content.

• **Mobile Colloquy** *iPhone*
Implemented the Whois and DCC controllers for the open source mobile version. Various bug fixes.

• **Taxi Cards** *iPhone*
Wrote the application including managed paging, dynamic content loading, and smooth transitions from opaque to transparent UI.

• **LimeChat** *Mac OS X*
Implemented some features, like NickServ authentication, and fixed a few bugs for the open source, Ruby based IRC client.

• **WebCall** *Symbian OS, S60*
Next generation contact list and on-call UI that takes advantage of the extra data channel of smartphones to display metadata. Written in Python and HTML/JS/CSS in WebKit.

• **Campaignr** *Symbian OS, S60*
Designed and wrote application to let other researchers task phones without needing to know the development environment. Controls hardware and software sensors through XML.

Publications:

• J. Peak, B. Greenstein, O. Gnawali, K. Jang, A. Joki, M. Vieira, J. Hicks, D. Estrin, R. Govindan, E. Kohler. **The Tenet architecture for tiered sensor networks**, *ACM Transactions on Sensor Networks (TOSN)*, Volume 6, Issue 4, July 2010.

• Z. Liu (With special thanks to A. Joki). **WebCall - A Rich Context Mobile Research Framework**, *The International Conference on Mobile Computing, Applications, and Services (MobiCASE)*, 2009.

• G. Yang, Z. Liu, K. Seada, H. Pang, A. Joki, J. Yang, D. Rosner, M. Anand, P. Boda. **Social Proximity Networks on Cruise Ships**, *Mobile Interaction with the Real World Workshop at MobileHCI*, 2008.

• E. Paulos, T. Jenkins, A. Joki, P. Vora. **Objects of Wonderment**, *Fifth conference on Designing Interactive Systems (DIS)*, 2008.

• A. Joki, J. Burke, D. Estrin. **Campaignr: A Framework for Participatory Data Collection on Mobile Phones**, *Center for Embedded Network Sensing Paper 770*, 2007.

• E. Paulos, A. Joki, P. Vora, A. Burke. **AnyPhone: Mobile Applications for Everyone**, *Third Designing for User Experience Conference (DUX)*, 2007.

• O. Gnawali, B. Greenstein, K.Y. Jang, A. Joki, J. Paek, M. Vieiera, D. Estrin, R. Govindan, E. Kohler, **The Tenet Architecture for Tiered Sensor Networks**, *Proceedings of the Fourth ACM Conference on Embedded Networked Sensing Systems (SenSys)*, 2006.

• M. Demmer, P. Levis, A. Joki, E. Brewer, D. Culler, **Tython: a Dynamic Simulation Environment for Sensor Networks**, *Technical Report No. UCB/CSD-05-1372, EECS Department, University of California, Berkeley*, 2005.

Conference Demos:

• S. Reddy, T. Schmid, A. Parker, J. Porway, G. Chen, A. Joki, J. Burke, M. Hansen, D. Estrin, and M. Srivastava, **UrbanCENS: Sensing with the Urban Context in Mind**, *Eighth International Conference on Ubiquitous Computing (UbiComp)*, 2006.

Conference Reviews:
• **Fourth Workshop on Embedded Networked Sensors (EmNets)**, *2007*

Workshops Organized:
• **Urban Sensing Summit** *2006* – Held to share current research, identify key issues, and create cross-institutional and cross-discipline collaborations.

• **Interactive City Summit** *2006* – Held to share ideas and insights about our omni-connected megalopolis. Held in conjunction with ISEA 2006 and featured at the symposium.

Skills & Abilities:
• Experience with Objective C, C, Symbian C++, JME, JSE, ANSI C++, Python, Perl, Ruby, NesC, JSON, XML.
• Intimate knowledge of Embedded Systems including Cellphones and Sensor Networks, and Application Development.
• Solid understanding of CocoaTouch, Cocoa, Mac OS X, Symbian OS, TinyOS, and UNIX.

Education:

UCLA
Los Angeles, CA 90095
2005-2009

Computer Science MS
3.27 GPA
Graduation: March 2009

UC Berkeley
Berkeley, CA 94720
2001-2005

Physics Major - EECS Minor
3.31 GPA
Graduation: May 20, 2005

Terra Linda High School
San Rafael, CA 94903
1998-2001

Honor Student
4.12 GPA
Graduation: June 8, 2001

High School Honors Program
UC Berkeley
Berkeley, CA 94720
2000-2001

Structure and Interpretation of Computer Programs – *Fall 2000*
Electrical Engineering Uncovered – *Spring 2001*

Academic Talent Development Program
UC Berkeley
Berkeley, CA 94720
1998-1999

Intuitive Approach to Higher Mathematics – *Summer 1998*
Symbolic Programming with Scheme and AP Statistics – *Summer 1999*