

August L. Joki
1600 Villa St. #304
Mountain View, CA 94041
(415) 577.7002 / august.joki@gmail.com
augustjoki.com

Research Interests: Embedded systems programming with a focus on ubiquitous and pervasive computing.

Work Experience:

- iPhone Application Freelancer *March 2008 to Present*
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 2009*
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. Troubleshoot computer problems.

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

- Mobile Colloquy *iPhone*
Implemented the Whois and DCC controllers for the mobile side. Various bug fixes.

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

- 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:

- 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. **Campaign: 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. Vieira, 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 ObjC, C, Symbian C++, JME, JSE, ANSI C++, Python, Perl, Ruby, NesC, XML, PHP, JavaScript, AJAX, and HTML.
- Solid understanding of CocoaTouch, Cocoa, Mac OS X, Symbian OS, TinyOS, UNIX, and Windows 9x.
- Intimate knowledge of Embedded Systems including Cellphones and Sensor Networks, and Application Development.

Education:**UCLA**

Los Angeles, CA 90095
2005-2009

Computer Science MS
CENS
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

Academic Talent Development Program

UC Berkeley
Berkeley, CA 94720
1998-1999

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

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