

Jonas Michel

PhD, Software Engineering
Austin, Texas

www.jonasmichel.com/
jonas.r.michel@gmail.com
(425) 941-4927

OBJECTIVE

Seeking a full time software engineering role with large scale and distributed computing emphasis.

EDUCATION

The University of Texas at Austin
May 2015

PhD, Electrical and Computer Engineering
Software Engineering **GPA: 3.94 / 4.0**

The University of Texas at Austin
December 2012

MS, Electrical and Computer Engineering
Software Engineering **GPA: 3.91 / 4.0**

University of Washington
March 2010

BS, Electrical Engineering
Minor, Mathematics **GPA: 3.61 / 4.0**

SKILLS

Proficient Java Android Data Engineering

Experienced Distributed Systems Python REST Node.js PostgreSQL
Graph Databases (Apache TinkerPop, Titan) MongoDB Bash

Knowledgeable MySQL LAMP C/C++ iOS Matlab MapReduce Go

EXPERIENCE

Graduate Research Assistant

Jan. 2011 – May 2015

Mobile & Pervasive Computing Lab, UT Austin

My doctoral research dealt with search algorithms and data modeling for mobile device-to-device applications. Key achievements include creating mobile apps for several 50-100 person user studies, deploying an experimental search system with custom sensor inputs on the UT campus, and developing a custom simulation and analysis framework for dynamic mobile systems.

Software Engineering Intern

May – Aug. 2013 + 2014

M87

Redesigned a critical mobile application used for demonstrations and in-field testing. Created a NoSQL time series analysis framework for analyzing millions of mobile phone logs. Developed an Android device-to-device middleware for streaming serialized data via Wi-Fi beacons.

Graduate Research Assistant

Sep. 2010 – Jan. 2011

Applied Research Laboratories, UT Austin

Made a complex high precision GPS data collection system accessible to non-expert research scientists by generating documentation, tutorials, and easy-to-use scripts.

Software Development Intern

March – Jun. 2010

Driving Smarter, LLC

Front and back end design of a web app for logging and visually exploring vehicle performance.

Undergraduate Researcher

Sep. 2009 – Mar. 2010

UbiComp Lab, University of Washington

Implemented an Android application for logging vehicle OBD-II data, calculating performance metrics, and uploading driving trip statistics to the cloud.

Undergraduate Researcher

Sep. 2009 – Jun. 2010

Autonomous Flight Systems Laboratory, University of Washington

Built a web app to calculate and visualize monetary risk for civilian drone flights.

A Small Business Innovation Research Grant was awarded to this project in March 2010.

Software Development Intern

Jun. 2009 – Sep. 2009

Boston Scientific

Developed an annotation-based unit testing framework to automate a manual testing process for pacemaker firmware code.

Team Programmer Intern

Jun. 2008 – Dec. 2008

Weyerhaeuser

Assumed sole support responsibilities for a companywide environmental, health, and safety web system.

IN THE PRESS

Searching the Here and Now. *UT School of Engineering (Web News)*, February 28, 2013.

Tom Simonite. How Google Plans to Find the UnGoogleable. *MIT Technology Review (Web News)*, November 2012.

PUBLICATIONS

Michel, J., Julien, C., Payton, J., “Gander: Mobile, Pervasive Search of the Here and Now in the Here and Now,” in *IEEE Internet of Things Journal*, 2014.

Michel, J., Julien, C., “A Cloudlet-Based Proximal Discovery Service for Machine-to-Machine Applications,” in *International Conference on Mobile Computing, Applications, and Services (MobiCase)*, 2013.

Michel, J., Julien, C., Payton, J., Gruia, G.-C., “myGander: A Mobile Interface and Distributed Search Engine for Pervasive Computing,” in *IEEE International Conference on Pervasive Computing and Communication (PerCom, Demonstrations Track)*, 2012.

Michel, J., “Mobilizing Search of the Here and Now,” in *IEEE International Conference on Pervasive Computing and Communication (PerCom, Ph.D. Forum)*, 2012.

Michel, J., Julien, C., Payton, J., Gruia, G.-C., “A Spatiotemporal Model for Ephemeral Data in Pervasive Computing Networks,” in *IEEE Workshop on Hot Topics in Pervasive Computing (PerHot)*, 2012.

Michel, J., Julien, C., Payton, J., Gruia, G.-C., “Gander: Personalizing Search of the Here and Now,” in *ICST Conference on Mobile and Ubiquitous Systems (MobiQuitous)*, 2011.

Abdel-Hadi, A., **Michel, J.**, Gerstlauer, A., Vishwanath, S., “Real-Time Optimization of Video Transmission in a Wireless Network of UAVs,” in *IEEE Vehicular Technology Conference (VTC2011-Fall)*, 2011.

ACTIVITIES**Website Administrator**

Mar. 2012 – Mar. 2013

IEEE International Conference on Pervasive Computing and Communications

Redesigned conference website. Responsible for posting all web content.

President

Jun. 2009 – Jun. 2010

HKN (Electrical Engineering Honor Society), University of Washington

Coordinated student socials, industry talks, and job recruiting events. Managed honor society tutoring program. Helped acquire a dedicated lounge space for EE students.

Undergraduate Volunteer

Sep. 2006 – Mar. 2010

Push America, University of Washington

Participated in interstate bicycle ride fundraisers, community visits, and service projects to raise awareness of disabilities.