Philip Mark

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Experience

Software Developer, *SAP*, Vancouver, BC　　　　　　　　　　　*Sep 2015 – Now (2 yrs 8 mos)*

◇ Developed front-end features for a web-based table (Excel/Google Sheets equivalent) used in SAP Analytics Cloud web application with Javascript, jQuery and SAPUI5 framework as part of the table team

◇ Demonstrated ability to lead and be involved in the full feature life cycle by designing, developing and shipping complex features, possibly spanning multiple teams

◇ Responsible for integration of the table component with mobile platforms (iPhone/iPad and Microsoft Surface tablets)

Research Assistant, *University of British Columbia*, Vancouver, BC　　　*2012 – 2014 (2 yrs 4 mos)*

◇ Performed research in the field of Visible Light Communication under supervision of Dr. Lutz Lampe for master's thesis (see Publications)

Software Developer Intern, *Ericsson*, Montreal, QC　　　　　　　　　*Jan – Aug 2012 (8 mos)*

◇ Created a proof of concept Javascript library and web application from scratch for cross-platform WebRTC (video conferencing, group chat, etc. over desktop and mobile)

◇ Developed functionality for a SIP gateway service in Java

Research Assistant, *McGill University*, Montreal, QC　　　　　　　　*May – Aug 2011 (4 mos)*

◇ Assisted in the investigation, implementation and testing of a novel algorithm for anomaly detection in computer networks using Matlab (see Publications)

Cellular Stack Software Developer Intern, *Blackberry Ltd*, Waterloo, ON　　*Jan – Apr 2011 (4 mos)*

◇ Developed new features in embedded C for the L1 control layer of the LTE/4G protocol stack (Cellular Technologies group) for Blackberry devices

Driver Software Developer Intern, *Blackberry Ltd*, Waterloo, ON　　　　*May – Aug 2010 (4 mos)*

◇ Wrote USB driver code in C and internal desktop tools in C++ for the USB team (Operating Systems group) using the Windows Driver kit

Education

M.A.Sc. Electrical & Computer Engineering　　　　　　　　　　　　*2012 – 2014*
University of British Columbia, Vancouver, BC
NSERC CGS M Postgraduate Scholarship recipient

B.Eng. Computer Engineering　　　　　　　　　　　　　　　　　　*2007 – 2011*
McGill University, Montreal, QC
NSERC Undergraduate Summer Research Award recipient

Publications

P. Mark, "Ethernet over Light", University of British Columbia, 2014.

Z. Yao, **P. Mark**, M. Rabbat, "Anomaly Detection using Proximity Graph and PageRank Algorithm", *IEEE Transactions on Information Forensics and Security*, vol. 7, no 4, pp. 1288-1300, August 2012.

Technical Skills

Web: Javascript/jQuery, HTML5, CSS/SASS/LESS, SAPUI5 framework, WebRTC, MODx, Wordpress

Programming: Java, C, C++, MATLAB, Python, VHDL, ARM Assembly, MIPS Assembly, LaTeX

IDEs: Sublime Text 3, Eclipse, Visual Studios, Notepad++, NetBeans

Selected Technologies: Git, Perforce, Gerrit Code Review, Chrome DevTools, Jenkins, Jasmine, JMeter, DevTrack, DevTest, JIRA, Wireshark, PSPICE, LogicWorks, Altera Quartus & Modelsim, Adobe Photoshop, Adobe Illustrator

Hobbies and Interests

Personal: ultimate frisbee, hockey, tennis, backcountry snowboarding (AST-1 certified)
Research: telecommunications, protocol design