

# PHILIP MARK

[phil.mark@gmail.com](mailto:phil.mark@gmail.com)

<https://linkedin.com/in/phmark>

<https://philipmark.net>

## EXPERIENCE

---

**Software Developer**, *SAP*, Vancouver, BC *Sep 2015 – Now (4 yrs 4 mos)*

- ◇ Developed front-end features for SAP's main analytics tool: [SAP Analytics Cloud](#)
- ◇ Topics include web-based Table (Excel equivalent), Digital Boardroom, Filters, Service Worker, mobile integration, performance and reliability
- ◇ Demonstrated ability to lead and be involved in the full feature life cycle by designing, developing and shipping complex features spanning multiple teams
- ◇ Technologies used: Javascript, Typescript, jQuery, SAPUI5

**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 (WDK)

## 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/Typescript, React, Redux, HTML, CSS/SASS/LESS, jQuery, SAPUI5 framework, WebRTC, Wordpress, MODx

**Programming:** Java, C, C++, MATLAB, Python, VHDL, ARM Assembly, MIPS Assembly, L<sup>A</sup>T<sub>E</sub>X

**IDEs:** VS Code, 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