

(703)-774-5765

kvaillancourt.github.io

Education

B.S. Computer Science, Spring 2017
 Virginia Tech, Blacksburg VA
 College of Engineering
 GPA: 3.44

Exchange Student, Spring 2016

University of Technology, Sydney Australia
 Information Technology and Creative Intelligence

Work Experience

- Developer Intern**, Apple, Cupertino, CA *January 2016 – March 2016*
- Developing internal tools for Hardware Project Management team
- Developer Intern**, Qualcomm, San Diego, CA *June 2015 – August 2015*
- Scripted in Perl to automate analysis of Youtube download patterns on mobile to optimize network sleep time and conserve battery with the LTE Software Integration Team
- Product Manager**, Institute for Creativity, Arts, and Technology, Blacksburg, VA *Dec 2013 – Dec 2014*
- Managed project records, budget of over \$600,000, and team communications of 20 team members
 - Solved large scale collaborative computing problems including system networking, data storage, image processing, HCI, and motion tracking
- Developer Intern**, Heyo, Blacksburg, VA *May 2014 – Dec 2014*
- Created, designed, and implemented Heyo Cart prototypes for production in individual R&D project
 - Worked with HTML, CSS, JavaScript, Python, PHP, and the APIs of Facebook, Pinterest, and PayPal to help small businesses to sell with social media
 - Featured in Inc. Magazine

Activities

- Programs**
- Computer Science Department Lead Student Ambassador, Virginia Tech *2014 - present*
 - NCWIT award presenter and speaker at Microsoft and Regional Grace Celebration *2014, 2015*
 - High-school recruiting and company relations liaison
 - Hire and train new student ambassadors
 - CodeU, Google *June 2015 – August 2015*
 - Invite-only Android program with 5 month Google mentoring and expense paid summit to present finished applications
- Memberships**
- Society of Women Engineers (SWE) *2013 – present*
 - Association for Women in Computing (AWC) Treasurer *2013 – 2015*
 - Honors Residential College (HRC) Apartment Fellow *2013 – 2015*

Honors & Awards

- National Scholarships**
- GE Women's Networking Scholarship *2014 & 2015*
 - National Center for Women in Information Technology National Award for Aspirations in Computing *2013*
- Conference Scholarships**
- CRA-W, Grace Hopper Celebration, Research Scholar *2016*
 - Apple, World Wide Developer's Conference, WWDC Scholar *2015 & 2016*
 - Google, National Grace Hopper Celebration, Travel Grant *2014*
 - AWC@VT, National Grace Hopper Celebration, Scholarship Recipient *2013*

Skills**Programming Skills**

- Java, C, Python - Extensive Projects (+10,000 Lines of Code)
- HTML, CSS, JavaScript, Perl, SQL - Moderate projects (+2,000 Lines of Code)
- PHP, Swift, Objective C, C++, Ruby, Matlab, Arduino - Small projects (<1,000 Lines of Code)

Coursework

- Advanced Data Structures & Algorithms, Computer Organization I & II, Undergraduate Research, Intro System Architectures, iOS, Cloud Computing
 - Implement a HTTP web server with persistent connections as per HTTP/1.1 protocol
 - Wrote dynamic memory allocator for programs in C. IE custom versions of malloc, free, and realloc
 - GIS System of large database manipulation and organization using Java and advanced data structures

Independent Work

- Udacity Android, MIT Open Courseware C++, CodeSchool Angular.js & Javascript, Treehouse CSS & HTML, CocoaNuts: iOS Swift & Objective C
 - Wheel of Eats Android app, BubblePop iOS app, Resume iOS app
- Hackathons – Hack Mobile, Hack for Impact, VT Hacks, QC Women's Hack, MHacks 6