

(703)-774-5765

<https://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**

- Technical Lead**, College of Architecture and Urban Studies, Blacksburg, VA *January 2017 – May 2017*
- Designing and implementing 3D printer drivers to alter printing techniques that will lead to improved print stability and quality. Lead in technical decision making, design, and programming for research project.
- 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**
- Student Ambassador, Computer Science Department at Virginia Tech *2014 - present*
  - 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, Undergraduate Research, Intro to Systems, iOS, Cloud Computing, Systems Capstone, Data & Algorithm Analysis, Comparative Languages
    - 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