

Ethan Graham Holder

(540) 589-2020

eholder0@vt.edu

Permanent Address

**4928 Huntridge Road
Roanoke, VA 24012**

Current Address

**13000 Foxridge Lane Apt. B
Blacksburg, VA 24060**

OBJECTIVE

Full-time position working with mobile software development or research starting in Fall 2015.

EDUCATION

Virginia Polytechnic Institute & State University, Blacksburg, VA. 24060

Dual B. S. / M. S. in Computer Science in honors with Business and Mathematics minors.

B.S. GPA: 3.697

Graduation: May 2014

M.S. GPA: 3.767

Graduation: May 2015

William Byrd High School, Vinton, VA. 24179

Advanced Studies Diploma with pre-engineering dual enrollment credits.

GPA: 4.21

Class Rank: 1st of 295

Graduation: June 2010

EXPERIENCE

2014 May-August **Software Development Engineer Intern**, Microsoft, Bellevue, Wa.

- Developing JS software for visualizing enterprise package management solution.
- Implementing C# interfaces for Neo4J-based backend graph infrastructure.
- Transitioning existing query structure from pre-calculated values to an extensible framework.

2013 May-August **Software Developer Intern**, IBM, Austin, Tx.

- Developing Java software for enterprise security platform
- Implementing REST interfaces for Java-based backend framework
- Planning, evaluating, and presenting work items within agile paradigm

2012 January-December **Software Developer Co-op**, IBM, Raleigh, Nc.

- Developing Java software to test device driver and firmware update packages
- Implementing shell/terminal calls on Windows and Linux from Java
- Planning, evaluating, and presenting work items within agile paradigm

2010 February-June **Pre-Engineering Internship**, Sunapsys Inc., Vinton, Va.

- Writing a web interface for an existing control system
- Integrating creative web design techniques for aesthetic appeal
- Coordinating with other employees to implement control system structures

COMPUTER SKILLS

Applications and Languages ordered from Proficient to Basic.

Applications: Eclipse, Visual Studio, IBM RTC, MARS, and MATLAB

Languages: Java, C#, Javascript, C, XML, HTML, CSS, VBScript, and AJAX

Operating Systems: Windows Consumer and Server, Enterprise Linux Distributions

Projects: Quad Tree on Disk Using Memory Manager (Java), Extensible Shell (C), Web Server (C)

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PUBLICATIONS

2014 January-Current Native Gap Undergraduate Research Project,

Virginia Tech, Blacksburg, Va.

- Implement software system to translate generic HTML and PhoneGap applications into identical native Android applications.
- Conduct in depth literature review on translation systems surrounding HTML.
- Develop and find generic HTML applications for acceptance testing.

2013 January-Current Cloud Twin Undergraduate Research Project,

Virginia Tech, Blacksburg, Va.

- Extend software system for translating mobile applications across platforms.
- Define intermediate structure as translation basis between mobile platforms.
- Develop Android and Windows Phone applications for acceptance testing.

Holder E., Shah E., Davoodi M., Tilevich E. Cloud Twin: Native Execution of Android Applications on the Windows Phone. *Automated Software Engineering 2013*, New Ideas, November 11-15, 2013

(<http://dx.doi.org/10.1109/ASE.2013.6693119>).

Holder E. Cloud Twin: Interactive Cross-Platform Replay for Mobile Applications. *SPLASH 2013*, ACM Student Research Competition, October 26-31, 2013 (<http://dx.doi.org/10.1145/2508075.2514879>).

CERTIFICATES

Toastmasters Public Speaking Certified (2010)

OSHA General Industry Certified (2010)

NOCTI Engineering Certified (2008)

HONORS & SCHOLARSHIPS

Virginia Tech Dean's List with Distinction (2010-2014)

Virginia Tech Frank M. Fazio General Engineering \$3100 Scholarship (2013)

Virginia Tech May Electrical Engineering \$2000 Scholarship (2011-2012)

Virginia Tech Computer Science Research Consortium \$2000 Scholarship (2012)

Virginia Tech Computer Science Research Consortium \$1500 Scholarship (2011)

Virginia Tech Flag Football Team Captain (2010)

American Electric Power \$7000 Scholarship (2010)

Roanoke County General Foundation Scholarship (2010)

ACTIVITIES

Upsilon Pi Epsilon Computer Science Honor Society President (2013-Current)

Upsilon Pi Epsilon Computer Science Honor Society Member (2012-Current)

Virginia Tech Honors Student (2010-2014)

IBM Ultimate Frisbee Club (2012)

Galileo Engineering Community at Virginia Tech (2010-2012)

Virginia Tech Flag Football Team (2010, 2011)

Manna Ministries Volunteer (September 2009-January 2010)