

EDUCATION

Washington University <ul style="list-style-type: none">• M.S. in Computer Science	Saint Louis, MO GPA: 3.57/4.0	August 2011-August 2014
Bard College <ul style="list-style-type: none">• B.A. in Computer Science• Senior Project Thesis: <i>Delaunay Diagram Representations for Use in Image Near-Duplicate Detection</i>	Annandale-on-Hudson, NY GPA: 3.59/4.0	August 2007-May 2011

RELEVANT TECHNICAL SKILLS

Java, JavaScript, C/C++, HTML, CSS, Python

WORK EXPERIENCE

Software Engineer, Cerner Corporation **September 2014-Present**
HEALTH MANAGEMENT DEV TEAM [*Cerner Millennium, JavaScript, Knockout, CSS, HTML, MPages, CCL, Java, JUnit*]

- Contributed to a REST service that allows the services offered by my team to be consumed externally
 - The main purpose of the project is to allow integration with FHIR, which is the current standard for exchanging electronic health records
 - Used the team's immunizations local service to create a REST service that is easily translatable to the FHIR format and which can be accessed externally using an OAuth token
 - Currently working on an automatic black-box integration testing framework for the REST service
- Completed work on two components of a Mass Vaccination solution for streamlining the administration of vaccines:
 - *Mass Assign Vaccines MPage*: allows the vaccine administrator to mass assign vaccines to a patient list
 - *Medication Administration MPage*: launches Cerner's Medication Administration Wizard from within the page by either scanning a barcode identifying the patient or clicking the appropriate link
 - ✓ The work was part of Cerner's Department of Defense contract
 - ✓ Successfully completed and delivered the project components in a timely manner
 - ✓ No errors were reported in my code after extensive testing by multiple teams

ORDERS AND PLANS DEVELOPMENT TEAM [*C++, CCL, Visual Studio*]

- Training and unit tests for PowerOrders software, which helps medical professionals coordinate orders across facilities

Research Intern, Mitsubishi Electric Research Laboratories **May-August 2014**
SPATIAL ANALYSIS GROUP [*MATLAB, C++, OpenCV, Visual Studio*]

- Worked on an indoor 3D reconstruction algorithm using images and 3D models

Graduate Research Assistant, Washington University in Saint Louis **August 2011-May 2014**
COMPUTER VISION GROUP [*MATLAB, C++, Python, HTML, CSS, Django, JavaScript, MySQL, Google Maps API*]

- Contributed to and maintained *The Archive of Many Outdoor Scenes*: the largest archive of outdoor webcam imagery (more than half-billion images) *amos.cse.wustl.edu*
- Updated the interface design of *Project Live3D*: a web application which allows users to geo-calibrate webcams by marking image correspondences on a 3D Google Earth model *projectlive3d.com*
- Designed method to correct EXIF image timestamps using correspondences between shadows and shadow casters
- Created 3D models of trees using structure from motion and analyzed the challenges involved in doing so

COMPUTER GRAPHICS GROUP [*C++*]

- Improved existing bone segmentation tool by adding a filter to create binary volume from a CT scan

Summer Research Intern, Clemson University **May-August 2010**
VIRTUAL ENVIRONMENTS GROUP [*C++, OpenSceneGraph, Autodesk Maya*]

- *Egocentric Distance Estimation in Virtual Environments* project: modeled a virtual environment to imitate a physical room and provided functionality so that objects would move identically in the room and in the virtual environment

Student Programmer, Bard College**September 2010-May 2011****HENDERSON COMPUTER RESOURCES CENTER [PHP, MySQL, LDAP, SOAP]**

- Designed and started implementing a central online system for changing passwords on Bard's network

Web Communication Intern, Human Rights First**January-May 2010****SEMESTER INTERNSHIP [HTML, CSS, PHP, WordPress]**

- Created templates and style sheets to transition the organization's website to the WordPress platform

Summer Research Intern, University of Houston**Summers 2008, 2009****COMPUTATIONAL PHYSIOLOGY LAB [MATLAB]**

- In 2008, worked on the *Analysis of the Blood Perfusion and Perspiration Components of the Supraorbital Thermal Signature* project, in which I proposed and analyzed techniques to measure stress in thermal imaging videos
- In 2009, analyzed the effectiveness of the lab's stress analysis tool on real polygraph data, and showed that the technology was close to being usable in practice

Research Assistant, Bard College**January 2008-December 2009****LABORATORY FOR ALGEBRAIC AND SYMBOLIC COMPUTATION [Wolfram Mathematica]**

- Worked on applications related to the classification of quandles

LEADERSHIP AND TEAMWORK

IDEA Labs Team Member, Washington University in Saint Louis**October 2013-August 2014**

- Member of IdealTap, a multidisciplinary team of students designing an innovative lumbar puncture chair
- Contributed to the design and creation of an in silica model of the chair as well as a to-scale, wooden prototype
- Applied for a provisional patent for the device in April 2014

President of ECHO Student Company, Bucharest, Romania**September 2005-May 2007**

- Simulated a retail company as part of the Junior Achievement Europe Student Company program
- Developed a business plan and a marketing strategy and designed and produced an innovative product, HanRuc, an anorak that turns into a backpack (rucksack)
- Won first prize in the national competition (Romania)

AWARDS

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| • <i>Research Assistantship</i> : full tuition and stipend from Washington University | 2011-2014 |
| • <i>Distinguished Scientist Scholarship</i> : full-tuition scholarship for all 4 years of study at Bard College | 2007-2011 |
| • University of Houston REU Poster Competition Winner | August 2008 |
| • CRA-W Graduate Cohort Workshop: scholarship recipient to attend the workshop | 2013, 2014 |
| • Grace Hopper Celebration of Women in Computing: scholarship to attend conference | 2011, 2012 |
| • <i>Best Company of the Year</i> , JA-YE Europe Company of the Year Competition, Romania: for ECHO | May 2006 |