ADINA RALUCA STOICA

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EDUCATION

Washington University **Saint Louis, MO** **August 2011-August 2014**
- M.S. in Computer Science GPA: 3.57/4.0

Bard College **Annandale-on-Hudson, NY** **August 2007-May 2011**
- B.A. in Computer Science GPA: 3.59/4.0
- Senior Project Thesis: *Delaunay Diagram Representations for Use in Image Near-Duplicate Detection*

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]*
- Developing a REST API to allow the services offered by my team to be consumed externally
- Contributing to an automatic black-box testing framework for all of the team's code base
- Completed work on two components of a Mass Vaccination solution for streamlining the administration of vaccines:
  - *Mass Assign Vaccines MPage*: allow the vaccine administrator to mass assign vaccines to a patient list
  - *Medication Administration MPage*: launch 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]*
- Worked on PowerOrders software, which helps medical professionals coordinate orders across all 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

- *Research Assistantship*: full tuition and stipend from Washington University 2011-2014
- *Distinguished Scientist Scholarship*: 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
- *Best Company of the Year*, JA-YE Europe Company of the Year Competition, Romania: for ECHO May 2006