ADINA RALUCA STOICA

http://adinastoica.com
adina.stoica@gmail.com

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*

SKILLS

- **Programming Languages:** Java, JavaScript, C/C++, HTML, CSS, Python
- **Language Skills:** Romanian – Native, English – Fluent, French – Advanced, Spanish – Beginner

EXPERIENCE

Software Engineer — **Cerner Corporation** — **September 2014-Present**

Health Management Dev Team *April 2015-Present*

[Cerner Millennium, JavaScript, Knockout, CSS, HTML, MPages, CCL, Java, JUnit]
- Currently working on a FHIR (Fast Healthcare Interoperability Resources) RESTful API to allow the services offered by my team to be consumed by external teams
- Currently working on an automatic black-box testing framework for all of the team's code base
- Previously worked on Cerner's Department of Defense contract, on two components of a Mass Vaccination solution for streamlining the administration of vaccines
    i. Mass Assign Vaccines MPage: allows the vaccine administrator to mass assign vaccines to a patient list
    ii. Medication Administration MPage: launch Cerner's Medication Administration Wizard for a patient from within the page by either scanning a barcode identifying the patient or clicking the appropriate link
  - Projects were finished and delivered in a timely manner
  - No errors have been reported with my code after extensive testing by multiple teams

Orders and Plans Development Team *[C++, CCL, Visual Studio]* *November 2014-April 2015*
- Worked on PowerOrders software, which helps medical professionals coordinate orders across all facilities

Research Intern — **Mitsubishi Electric Research Laboratories** — **May-August 2014**

Summer Internship, Spatial Analysis *[MATLAB, C++, OpenCV, Visual Studio]*
- Worked on an indoor 3D reconstruction algorithm using images and 3D models

Graduate Research Assistant — **Washington University** — **August 2011-May 2014**

Computer Vision Group *December 2011-May 2014*

[MATLAB, C++, Python, HTML, CSS, Django, JavaScript, MySQL, Google Maps API]
- Development and maintenance work on *The Archive of Many Outdoor Scenes*: the largest archive of outdoor webcam imagery (more than half-billion images) *amos.cse.wustl.edu*
- 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++]* *August 2011-November 2011*
- 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*: 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

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]*

- 2008: - proposed and analyzed techniques to measure stress in thermal imaging videos
  - project *Analysis of the Blood Perfusion and Perspiration Components of the Supraorbital Thermal Signature*
- 2009: - analyzed the effectiveness of the lab's stress analysis tool on real polygraph data
  - in the final report I 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** **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, 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 national competition (Romania)

AWARDS

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