ADINA RALUCA STOICA

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

RELEVANT TECHNICAL SKILLS

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

WORK EXPERIENCE

Software Engineer, Cerner Corporation

September 2014-Present

HEALTH MANAGEMENT DEV TEAM [JavaScript, CSS, HTML, Knockout, MPages, CCL, Java, JUnit]

- Contributed to a REST service that allows the information supplied 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
- 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

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)
- 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