ADINA RALUCA STOICA

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EDUCATION

***M.S. in Computer Science** (August 2014) | Washington University in St. Louis | GPA: 3.57*

- *Research Assistantship*: full tuition and stipend from Washington University (2011-2014)

***B.A. in Computer Science** (May 2011) | Bard College, NY | GPA: 3.59*

- *Distinguished Scientist Scholarship*: full-tuition scholarship from Bard College (2007-2011)
- *Senior Project Thesis*: *Delaunay Diagram Representations for Use in Image Near-Duplicate Detection*

WORK EXPERIENCE

***Senior Software Engineer**, Bloomberg LP, New York, NY (June 2017-Present)*

Technologies used: *JavaScript, C++, Comdb2 (database)*

- **Asset Investment Management (AIM) Team** (June 2017-Present)

***Software Engineer**, Cerner Corporation, Kansas City MO (September 2014-May 2017)*

Technologies used: *MPages (JavaScript, Jasmine), WorklistFramework (Knockout), Java, JUnit, SQL, CCL (database)*

- **Health Maintenance Dev Team** (May 2015-May 2017)
  - *Recommendations MPage*: integrated information between the Health Maintenance and HealtheIntent services
  - *Immunizations REST Service*: using an OAuth token, external clients can consume the service
  - *Mass Vaccination Solution* for streamlining vaccine administration (part of Cerner's DoD contract):
    - *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
- **Orders and Plans Development Team** (December 2014-April 2015)
- **Cerner DevCenter Trainee** (August-December 2014)

PERSONAL PROJECTS AND RESEARCH EXPERIENCE

Ideal-Engine (CompareApp): personal project using the *Meteor* framework, *ReactJS* and *MongoDB*

- The application allows users to create a custom comparison to evaluate options: ideal-engine.herokuapp.com

Research Intern, Spatial Analysis Group, Mitsubishi Electric Research Laboratories (Summer 2014)

- Used *C++, OpenCV* and *MATLAB* to develop an indoor 3D reconstruction algorithm using images and 3D models

Graduate Research Assistant, Washington University in Saint Louis (2011-2014)

- **Computer Vision Group**
  - *The Archive of Many Outdoor Scenes*: the largest archive of outdoor webcam imagery, containing more than half-billion images (*HTML, CSS, Python, Django, JavaScript*): amos.cse.wustl.edu
  - *Project Live3D* interface: a web application which allows users to geo-calibrate webcams by marking image correspondences on Google Earth (*HTML, CSS, Python, Django, JavaScript, MySQL*): projectlive3d.com
  - 3D models of trees using structure from motion and analyzed the challenges of it (*C++, Bundler, MATLAB*)

- **Computer Graphics Group**
  - Improved an existing bone segmentation tool by adding a filter to create binary volume from a CT scan (*C++*)

Summer Research Intern, Virtual Environments Group, Clemson University (Summer 2010)

- *Egocentric Distance Estimation in Virtual Environments:*
  - Modeled a virtual environment to imitate a physical room using Autodesk Maya
  - Implemented functionality using *C++* and *OpenSceneGraph* that enabled the movement of objects in the room to be reflected in the virtual environment

Summer Research Intern, University of Houston (Summers 2008, 2009)

- 2008: worked on project *Analysis of the Blood Perfusion and Perspiration Components of the Supraorbital Thermal Signature*, in which I proposed and analyzed techniques to measure stress in thermal imaging videos (*MATLAB*)
- 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

MENTORSHIP AND TEAMWORK

- *DevCenter Mentor, Cerner Corporation*, (December 2016-May 2017)
  - Spending 2-4 hours a week mentoring, reviewing, and coaching new engineers (*Agile Methodology, Code Reviews*)
- *Coding & Cocktails Mentor, Kansas City Women in Technology* (January 2017-May 2017)
  - Helping to women with little-to-no prior programming experience to build their first web apps
  - Help with HTML, CSS, GitHub, JavaScript, JQuery etc.
  - Mentoring women interested in learning software engineering and possibly working in the field
- *IdealTap team member, IDEA Labs, Washington University* (2013-2014)
  - In a multidisciplinary team of students, contributed to designing an innovative lumbar puncture chair:
    - Design and creation of an in silica model of the chair as well as a to-scale, wooden prototype
    - Provisional patent for the device (2014-2015)