ADINA RALUCA STOICA

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EDUCATION

M.S. in Computer Science (August 2014) | *Washington University in St. Louis*
- *Research Assistantship*: full tuition and stipend from Washington University (2011-2014)

B.A. in Computer Science (May 2011) | *Bard College, NY*
- *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, Asset Investment Management (AIM), *Bloomberg, New York, NY (June 2017-Present)*
Technologies used: *JavaScript, C++, Comdb2 (database)*

- **AIM Entity Management** (February 2019 -Present)
  Based on my TC experience, I was offered the opportunity to join this team. I am spearheading a project to improve user experience and streamline the UI of one of our settings products, with the goal of extending its client base

- **AIM Trade Blotters** (June 2017-February 2019)
  Trade Complete (TC) is a blotter which aims to be the go-to Post Trade Blotter for AIM Clients. During my time in the team, I became one of the main experts in TC as well as in what it takes to develop a good user interface, from using the Bloomberg technology stack to improving user experience
  - *Maker Checker*: integrated functionality from a deprecated blotter; the workflow here is that one person can modify settlement details, but only a different person can approve and send to custodian
  - *Backend Filters*: worked on the UI / service calls for reducing data requested based on saved settings
  - *Views*: mentored an intern and oversaw the work for saving a series of settings grouped under a "view" name
  - *View CTM Details*: integrated functionality from a deprecated blotter, showing a popup with CTM trade details
    - This was our fastest and most successful deprecation project from the time development started to the time rollout ended, and the CTM Details popup was an integral part of it
  - *Platform Status Colors*: implemented method to use data in a column to generically color a different column

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

Apartments Scraper: scraper using *beautifulsoup4* and *python* that returns a CSV file importable in ideal-engine
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

VOLUNTEERING, MENTORSHIP AND TEAMWORK

Best of Bloomberg (BOB) Events (June 2017-Present)
 - Bloomberg employees are encouraged to volunteer with various organizations in their spare time
BTechies (February – March 2018)
 - Conducted science experiments with a group of middle schoolers with the purpose of instilling an interest in STEM
Member of WAIM (Women in AIM) and BWIT (Bloomberg Women in Technology) (June 2017-Present)
 - Participated in events to meet other women, volunteering events, as well as organized an ice skating evening
DevCenter Mentor, Cerner Corporation (December 2016-May 2017)
 - Spent 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)
 - Helped women with little-to-no prior programming experience build their first web apps (HTML, CSS, JavaScript)
IdealTap team member, IDEA Labs, Washington University (2013-2014)
 - In a multidisciplinary team of students, contributed to designing an innovative lumbar puncture chair

RESEARCH EXPERIENCE

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