ADINA RALUCA STOICA

adina.stoica@gmail.com | adinastoica.com

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)

WORK EXPERIENCE

Senior Software Engineer, Asset Investment Management (AIM), Bloomberg, New York, NY (June 2017-Present)
Technologies used: *JavaScript, C++, Python, Comdb2 SQL (database)*

- **AIM Entity Management** (February 2019 -Present)
  Based on previous work and my expertise in UI at Bloomberg, I was offered the opportunity to join this team and work on two main projects related to one of the key settings screens in AIM
  o Spearheading the team's efforts to improve the user interface and user experience for the product
  o Working on a *community model* enhancement to the product that would allow settlement data to be shared between financial entities in order to prevent data duplication, with the goal of extending our 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
  o *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
  o *Backend Filters*: worked on the UI / service calls for reducing data requested based on saved settings
  o *Views*: mentored an intern and oversaw the work for saving a series of settings grouped under a "view" name
  o *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

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)
  o *Recommendations MPage*: integrated information between the Health Maintenance and HealtheIntent services
  o *Immunizations REST Service*: using an OAuth token, external clients can consume the service
  o *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 different options

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 2018 – Present)
  - 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)
  – Worked on developing an indoor 3D reconstruction algorithm using images and 3D models (*C++, OpenCV, MATLAB*)
Graduate Research Assistant, Washington University in Saint Louis (2011-2014)
- **Computer Vision Group**
  - Helped maintain *The Archive of Many Outdoor Scenes*, the largest archive of outdoor webcam imagery, containing more than half-billion images (*HTML, CSS, Python, Django, JavaScript*)
  - Updated the *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*)
  - Created 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++*)
Senior Project Thesis, Bard College (May 2011):
- ***Delaunay Diagram Representations for Use in Image Near-Duplicate Detection***
Summer Research Intern, Virtual Environments Group, Clemson University (Summer 2010)
- ***Egocentric Distance Estimation in Virtual Environments:***
  - Implemented functionality that enabled the movement of objects in a physical room to be reflected in the virtual environment that I also modeled (*C++, OpenSceneGraph, Autodesk Maya*)
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