**SIMON ALEXANDER WARCHOL**

*SimonWarchol.github.io*

440 Carswold Dr. St. Louis, MO 63105

Simon.A.Warchol@gmail.com (314) 856-8575

## EDUCATION

**Tufts University** Medford, MA

Bachelor of Science*, magna cum laude September 2011-* May 2015

*Major: Computer Science*; *Minor: Economics*

**RELEVANT COURSES**

Machine Structure and Assembly Language Programming, Algorithms, Programming Languages, Computation Theory, Database Systems, Web Engineering, Human Computer Interaction, Visualization, Probability and Statistics for Engineering, Data Structures, Object-Oriented Programming for Graphical User Interfaces

**WORK EXPERIENCE**

**Tufts University** Medford, MA

*Teaching Assistant January 2014 – May 2015*

* Assist Data Structures students in their understanding of course concepts, including sorting algorithms, hashing, trees, stacks, queues, and linked lists.
* Help students plan out and debug course assignments and projects written primarily in C++.
* Grade student assignments and review graded coursework individually with students.

**Visual Analytics Laboratory at Tufts** Medford, MA

*Research Assistant September 2014 – December 2014*

* Worked in conjunction with a team at the University of Michigan to analyze a large data set of infographics to determine which factors yield a more effective visualization.
* Participate in weekly lab group meetings and contribute to the research of other lab members.

**Glasslight Technologies Inc.** ***(Incubated by Thrupoint CafeX)*** Cambridge, MA

*Software Engineer / Graphic Designer May 2013 – August 2013*

* Co-creator of the “American Banker Mobile Banking & Commerce "Mobile Solution of the Year" winning "Bank of Now" iPad app for Cisco.
* Integrate CaféX WebRTC into various corporate customer service applications and pitch these augmented apps.

**ACTIVITIES**

**Baseball Analysis at Tufts**

*Treasurer September 2014 – May 2015*

*President* *January 2012 – May 2014*

* Perform extracurricular statistical baseball research and data analysis.
* Visualize the results of these analyses and present them to fellow Sabermetricians and MLB executives.
* Compete in the SABR Analytics Conference Case Competition as part of Tufts’ Baseball Analysis team.

**SKILLS**

* Objective Oriented Programming (Java, C#, C++)
* Web Development (HTML, CSS, JavaScript)
* Data Visualization (Processing.js, d3, Excel)
* Data Analysis (R, Excel)
* C
* Database Systems (mongoDB, PostgreSQL, MySQL)
* Web Frameworks (Django, Node.js)
* Graphic Design (Adobe Photoshop, Adobe Illustrator)
* Spanish Proficiency