

# Andrew D'Angelo

*M.Sc. Computer Science*

*B.Sc. Honours Computer Science*

*B.A.Sc. Honours Chemical Engineering*

## Tech Experience

2017 – Present **Lead Software Engineer**, reebee, Kitchener, ON.

- Android and iOS developer
- Develop and code new features for the reebee mobile apps
- Lead UI/UX designer

2016 – 2017 **Software Engineer**, reebee, Kitchener, ON.

- Android developer
- Responsible for designing, coding and maintaining the Android reebee app
- Develop and code new features
- Lead Android UI/UX designer

## Education

2015 – 2016 **M.Sc. Computer Science** *University of Guelph*, Guelph, ON, GPA: 91.0

- Thesis: “Analyzing the Gender Wage-gap in Ontario's Public Sector”
- Developed algorithms to collect, clean and standardize ‘Sunshine List’ data
- Developed algorithms to create longitudinal links for individuals at different points in time
- Developed algorithms to infer the gender of an individual based on their given name
- Created a database containing enhanced ‘Sunshine List’ data, which will be made publicly available to all researchers

2012 – 2015 **B.Sc. (Honours) Computer Science** *University of Guelph*, Guelph, ON, GPA: 87.2  
Dean’s Honours List, Area of Application: Mathematics

2005 – 2011 **B.A.Sc. (Honours) Chemical Engineering** *University of Waterloo*, Waterloo, ON  
Minor: Management Science

## Awards and Scholarships

2015 **NSERC Undergraduate Student Research Award**

## Projects

2014 - 2015 **Iron Tracker – Hemochromatosis**, Canadian Hemochromatosis Society & University of Guelph

- Worked in collaboration with a team of individuals from the University of Guelph and Mount Allison University, with my contributions focused on the coding of the Android Application Iron Tracker
- The Iron Tracker App gives patients a single place where treatment and life-long progress can be tracked, combining appointment management with tracking and visualization of bodily hemoglobin and ferritin values, providing a clear visualization of this data to better understand and share

- progress with friends, family and physicians. The app also tracks phlebotomy appointments and details, helping patients manage their lifestyle and wellness
- Iron Tracker has been downloaded by thousands of individuals in over 100 countries, including Canada, United States, United Kingdom, Australia, Italy, France, South Africa, New Zealand, and Switzerland
  - Available in English, French, and Italian

### Articles and TV Features

- Debates of the Senate Official Report, Volume 149, Number 140, Pages 3327 - 3328, May 12, 2015. Available at: [http://www.parl.gc.ca/Content/Sen/Chamber/412/Debates/pdf/140db\\_2015-05-12-e.pdf](http://www.parl.gc.ca/Content/Sen/Chamber/412/Debates/pdf/140db_2015-05-12-e.pdf)
- Bubak, Susan, *Computer Scientists Design App to Monitor Genetic Disorder*, At Guelph News Letter, October 20, 2014. Available at: <http://news.uoguelph.ca/2014/10/computer-scientists-design-app-to-monitor-genetic-disorder/>
- The Celtic Connection, Issue 24, Volume 2, Page 25, March 2015. Available at: [http://celtic-connection.com/wp-content/uploads/2015/03/celtic\\_mar-15\\_1-lo-res.pdf#page=25](http://celtic-connection.com/wp-content/uploads/2015/03/celtic_mar-15_1-lo-res.pdf#page=25)
- Dueck, Peter, *Iron Filings*, Canadian Hemochromatosis Society, Fall 2014. Available at: [http://irontracker.ca/news-files/CHSNews\\_Fall2014\\_web.pdf](http://irontracker.ca/news-files/CHSNews_Fall2014_web.pdf)
- *Iron Age News*, Issue 87, Hemochromatosis Australia, September 2014. Available at: [http://irontracker.ca/news-files/IA\\_News87\\_Sep2014Web.pdf](http://irontracker.ca/news-files/IA_News87_Sep2014Web.pdf)
- Iron Tracker was showcased at Queen's Park by MPP Chris Ballard, May 26, 2015. Available at: [https://www.youtube.com/watch?v=TvsXj90rZ\\_E](https://www.youtube.com/watch?v=TvsXj90rZ_E)
- Iron Tracker was featured on CTV News Atlantic. Available at: [http://atlantic.ctvnews.ca/video?clipId=700616&binId=1.1145729&playlistPageNum=1#\\_gus&\\_gucid=&\\_gup=twitter&\\_gsc=gq71JjW](http://atlantic.ctvnews.ca/video?clipId=700616&binId=1.1145729&playlistPageNum=1#_gus&_gucid=&_gup=twitter&_gsc=gq71JjW)

### Extra Curricular Activities

2015 - 2016

**Garden Fresh Box**, Guelph Community Health Center & University of Guelph

- The Garden Fresh Box program is a non-profit, fresh produce buying service created to help access affordable fresh fruits and vegetables and also support local farmers
- Was part of the development team to design and build an Android app to extend the reach of the Garden Fresh Box program to all members of the community

2015 – 2016

**Mentored and worked with visiting students from Brazil**, University of Guelph

- Developing a website to host research contributions, specifically to allow fellow research access to the collected, cleaned and enhanced Sunshine List data

### Peer-Reviewed Publications

2015

Antoine, L., D'Angelo, A., Grewal, G. et al. (December 2015). *Analyzing the Gender Wage Gap in Ontario's Public Sector*. 14<sup>th</sup> IEEE International Conference on Machine Learning.

### Conference Poster Publications

2014

Grewal, G., D'Angelo, A., Hamilton-Wright, A., et al. (September 2014). *Determining the utility of mobile applications for managing blood-iron in hemochromatosis treatment*. Poster presented at the 6<sup>th</sup> Annual New Brunswick Health Research Conference, New Brunswick, Canada. Available at: <http://irontracker.ca/news-files/NBHRF2014-ManagingBloodIron.pdf>