Harrison Maxwell Davis

www.harrisonmdavis.com

EMPLOYMENT

Software Engineer	**eBay Inc.**	**Summer 2014- Present**

- Member of combined data science/engineering team responsible for all merchandising and personalization algorithms for eBay marketplaces

CS 3110 Course Staff	**Cornell University**	**Fall 2013- Present**

- Hold office hours, create, test, and grade problem sets, and monitor discussion board of approximately 300 students in CS 3110: Functional Programming

Software Engineering Intern	**eBay Inc.**	**Summer 2013**

- Researched machine learned algorithm to identify and recommend unique items for the homepage feed
- Independently contributed to internal Scalding repository
- Tools included NumPy, SciPy, scikit-learn, and Scalding

Computer Science Tutor	**Cornell University**	**Fall 2012- Present**

- Provide students with supplementary instruction in CS 2110: Object-Oriented Programming and CS 3110: Functional Programming

Software Engineering Intern	**Creative Mobile Technologies, LLC.**	**Winter 2011, Summer 2012**

- Designed and developed an Android application using SOAP web services to be integrated in RideLinQ program
- Assisted in redesign and deployment of corporate website

EDUCATION

Ithaca, NY	**Cornell University**	**Fall 2010- Spring 2014**

- B.S. in Computer Science with Concentration in Machine Learning, May 2014

London, UK	**University of Pennsylvania**	**Summer 2012**

- Coursework: London Theatre; Documentary Writing: George Orwell and London

PROJECTS

- **MIT AppInventor** (Spring 2014): Open source contributor. Prototyped autocomplete filter bar. Javascript, HTML, CSS
- **Marketplace** (Winter 2014): Bare-bones online marketplace for Cornell graduates. Node.js, Express, Jade, MongoDB
- **NFL-Spread (**Fall 2013): Researched machine learned models with goal to beat Vegas predictions of NFL spreads. Python, scikit-learn
- **Flu Predictor** (Fall 2012)**:** Twitter bot that identifies regions with a relatively high flu density using a Bayesian probability model. Python, Twitter

ORGANIZATIONS

Musical Director	**Cornell Chordials**	**Fall 2011-Spring 2014**

- Lead all aspects of the group, including auditions, rehearsals, and performances (15-20 hours per week)
- Produced *The Shadow Aspect*, featured on Voices Only 2013 and Sing 10, rated 4.7/5.0 on RARB.org, received 3 Contemporary A Cappella Recording Awards nominations
- 3rd place at 2013 International Championship of A Cappella
- Named one of "Ten Can't Miss American Collegiate A Cappella Groups of 2013" on acappellablog.com

SKILLS /INTERESTS

- **Technical:** Python; Java; Scala; OCaml; JavaScript; C++; Matlab; Android; Hadoop; MapReduce; Git
- **Honors:** Engineering Global Fellow; Dwight D. Eisenhower West Point Leadership Award; Outstanding Member of the Class of 2014
- **Other Activities:** Association of Computer Science Undergraduates; Lightweight Varsity Football; Chi Phi Fraternity; Cornell LeaderShape Institute
- **Personal:** Spanish (Proficient); Piano; Guitar; Singing; Football; Boating; Traveling