

Grady B. Ward

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| www.gradybward.com

Education

Brandeis University *Graduating May 2016*

GPA: **3.990**

Majors in Economics, Mathematics and Computer Science (BS)

Phi Beta Kappa (Jr. Year), Presidential Scholar, Lerman-Neubauer Fellow

Essex High School *Graduated June 2012*

GPA: **96.81**

Software Development

Web Development:

Full-stack web development: Java EE, JSP/JSTL, Python + Django, NodeJs, JavaScript + Jasmine, SQL, MongoDB, Responsive Web Design, UX courses, CSS/SASS, GAE, AWS

Scientific Work:

C, Java, Python, Matlab, R, STATA, SPSS, Scheme/Lisp

Programming

Independent Programming (Mostly Available on Github @gbdubs)

- Senior thesis on the discriminatory power of polynomial time invariants for graph isomorphism. (2016)
- Quick Paths processing (in GI), using tries, delayed evaluation, and stream processing in C. (2016)
- A calculus course aid (www.calcu.education) with 12K+ problems, and a beautiful UX. (2015)
- Online collaborative tool (www.GradyDocs.com) for collaborative text processing. (2016)
- Fast and invertible enumeration of countably infinite set of n-ary trees. (2015)
- All public projects on GitHub (gbdubs), and on a personal website (www.gradybward.com)

Color Linearization and Feature Detection (2014)

- Research with Prf. DiLillo. Discovered an interesting way to traverse the color space of an image, and applied the technique to several algorithms as part of an application in thumbnail optimization.
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Work Experience

Software Engineer – Google – Mountain View CA – *Starting August 2016*

Software Engineer – Sigmatic – New York NY – *August 2016 to Present*

Member of a three-person start-up aiming to use user data to create better web experiences. Developing an MVP for public release by 2016. More information is available by request.

Team Lead – CalcU – Waltham MA – *Summer 2015*

Built a scalable, responsive and accessible web application that scrapes the web for calculus resources, and uses user metrics alongside out of the box machine learning to direct students to problems, questions and content that best fits their needs. Received a competitive SPARK grant to hire three interns. Served in many roles, a mix of management, architecture, engineer, motivator and UX designer.

Software Engineering Intern – edX – Cambridge MA – *Summer 2014*

Programmed as a full member of a three-person scrum team in weeklong sprints to develop and deploy updates and new features to an essay grading component for online courses. Adhered to rigorous test driven development standards, and learned the fundamentals of web development on the job.

Teaching Assistant – Brandeis University – Waltham MA – *August 2013 to December 2015*

In addition to typical TA responsibilities I frequently created problem sets and held recitations. Seven courses in total: COSI 11, COSI 12, COSI 131, COSI 130, COSI 21, COSI 180, and COSI 131 (again).

Evaluation and Analysis Intern – Jumpstart – Boston MA – *Summer 2013*

Used a variety of computer platforms to compile data and model early language learning outcomes

Community Advisor (RA) – Brandeis University – Waltham MA – *August 2013 to May 2015*

Activities and Interests

Student Representative to the Board of Trustees – *April 2014 to Present*

Varsity Track and Cross Country – Cross Country, Indoor and Outdoor Track (4:24 mile)