Grady Berry Ward

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Education

Brandeis University *Graduated May 2016*   GPA: **3.99**
    Bachelor of Science in Computer Science (highest honors), Economics and Mathematics
    Phi Beta Kappa (Jr. Year), Presidential Scholar, Lerman-Neubauer Fellow, Summa Cum Laude
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

Independent Programming (Github @gbdubs)

- Senior thesis on the discriminatory power of polynomial time invariants for graph isomorphism. (2016)
- Quick GI testing, using tries, shared memory, 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, offline)
- Fast and invertible enumeration of countably infinite set of n-ary trees. (2015)
- Color Linearization: discovered an interesting way to manipulate the color space of an image. (2014)

All of these projects (and more) on GitHub (gbdubs), and on a personal website (www.gradybward.com).

Work Experience

Software Engineer – Google – Mountain View CA – *Starting August 2016*
Software Engineer – Fluid – New York NY – *August 2016 to May 2016*
    Member of a three-person start-up aiming to use user data to create better web experiences.
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 January 2016*
    Typical TA responsibilities, frequently created problem sets and held recitations. Seven courses in total: COSI 11, COSI 12, COSI 131, COSI 130, COSI 21 (summer), COSI 180, and COSI 131 (again).
Community Advisor (RA) – Brandeis University – Waltham MA – *August 2013 to May 2015*
Evaluation and Analysis Intern – Jumpstart – Boston MA – *Summer 2013*
    Used a variety of computer platforms to compile data and model early language learning outcomes

Activities and Interests

Student Representative to the Brandeis Board of Trustees – *Junior + Senior Years*
Brandeis Varsity Athletics – *All four years* – Cross Country, Indoor and Outdoor Track (4:21 mile)

Awards

Kukin Moskowitz Prize for Excellence – *Brandeis University, May 2016*
Computer Science Prize for Outstanding Achievement – *Brandeis University, May 2016*
Computer Science Entrepreneur of the Year – *Brandeis University, May 2016*
Sidney S. Cohen Award in Economics – *Brandeis University, May 2016*