Joseph R. Botros
+1 (812) 243-6820 · botros@college.harvard.edu

Local Address	**Permanent Address**
164 Mather Mail Center	6751 W. Manor Drive
Cambridge, MA 02138	Terre Haute, IN 47802

EDUCATION

Harvard University, Cambridge, MA   Expected May 2015
A.B. Candidate: Molecular and Cellular Biology, Secondary Field: Computer Science   GPA: 3.82

Terre Haute South Vigo High School, Terre Haute, IN   June 2011
High School Diploma   GPA: 4.00, SAT: 2400
Valedictorian; Mr. Science of Indiana; White House Science Fair Delegate; National Olympiad semifinalist in biology, finalist in chemistry; JETS national champion team captain

EXPERIENCE

Novartis Institutes for BioMedical Research   **Cambridge, MA**

Data Engineering Intern   June 2014–Present
- Evaluate DBMSs and distributed computing systems for use in bioinformatics applications
- Automate deployment of these technologies to Novartis computing clusters using Chef and Fabric

The Harvard Crimson   **Cambridge, MA**
Director of Web Development   January 2013–June 2014
- Supervised a development team of 20 programmers and web designers
- Implemented a full-scale restructuring of The Crimson's codebase (Python/Django) as the head of a team of three, and coordinated a responsive redesign of the website (increasing pageviews by 30%)
- Personally developed a system of shortcodes to allow arbitrary rich media placement within articles
- Acted as main designer for The Crimson's first ten online multimedia features, two winning placement in the top five Associated College Press Multimedia Features of the Year

Summer Business Manager   June 2013–August 2013
- Led the organization's summer sales team of five, bringing in over $118,000 in advertising revenue
- Planned and organized The Crimson's Summer Journalism Academies for middle/high school students
- Managed collections, invoicing, payments, and day-to-day affairs of the business

Advertising Associate   January 2012–December 2012
- Personally generated $30,000 in revenue from print and online advertising sales
- Implemented improved contracting functionality in The Crimson's internal databases (Access/VBA)

Harvard University   **Cambridge, MA**
Visual Computing Group Researcher   September 2014–Present

Molecular Biology Researcher   June 2012–December 2013
- Studied the functionality of sidt2, a human gene encoding a double-stranded RNA transporter protein
- Managed the breeding and record-keeping of the Hunter Lab's mouse colony

Mathematics Course Assistant   September 2012–December 2013
- Hosted weekly accessory lessons for introductory multivariable calculus and linear algebra courses

SKILLS

Code: Proficient in Python/Django. Intermediate in C, JavaScript, PHP, Ruby, SQL. Familiar with Java, Objective-C, OCaml, VBA. Comfortable with version control for large development teams.

Design: Proficient in Adobe Photoshop and InDesign. Familiar with Adobe Illustrator.