

Christian C. Testa

MATHEMATICIAN · PROGRAMMER · WEB ENGINEER

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Education

Tufts University

Medford, MA

B.S. IN MATHEMATICS AND SENIORS HONORS THESIS

Aug. 2013 - Now

- Graduating in Spring 2017 with experience focused in numerical linear algebra, number theory, and web engineering.
- I'm using data visualization and numerical mathematics in Python to explore the topic of my thesis: Elliptic Curves.

Experience

Office of Institutional Research at Tufts

Somerville, MA

RESEARCH ASSISTANT

Sep 2013 - Now

- Developed a web application in R called QualtricsTools to automate processing Qualtrics survey data into reports.
- Implemented a Javascript library for validating Qualtrics survey input.
- Processed data and student information in R for research projects on survey respondent behavior.

Journal of Medical Insight

Boston, MA

SOFTWARE DEVELOPER, WEB ENGINEER, AND INTERN

Summer 2015

- I worked in a small team to overhaul the organizations website, rebuilding it with Django and Redis.
- Prototyped a video player to fit the custom needs for surgical videos.

HostGator.com (Web Hosting)

Austin TX

JUNIOR ADMINISTRATOR

Summer 2013, Summer 2014

- Worked with customers to manage web servers.
- Focused on server side engineering and scaling.

Ability & Skills

Programming Languages

Somerville, MA

TECHNOLOGIES AND SCRIPTING

Aug. 2013 - Now

Django, Ruby on Rails, and Linux. Having worked in web hosting, web development and enrolled in multiple web engineering courses, I have a strong background in engineering in a linux and web environment.

Python and SageMath. In writing about elliptic curves I am combining mathematics, programming, and data visualization to present their most powerful theory.

MatLab and C. In a high performance computing course I used iterative numerical methods to develop proficiency in parallel and distributed computing.

R, Tableau and Data. At the Tufts Office of Institutional Research I have automated data analysis and visualization by building web interfaces bridging our data needs from each of these environments.

Extracurricular Activity

Tufts Ballroom and Harvard Ballroom Team Member

Somerville, MA

MEMBER

Aug 2013 - Now

- To relax, I like to apply a mathematical and analytic perspective to ballroom dancing. I focus on using ideas about harmonic oscillators, angular momentum, and reflexive systems to enjoy the hobby in my own way and create a unique and dynamic performance.