Brian S. Mueller

bmueller@hstat.org

brianmueller.github.io

Education

Math for America   New York, NY
Master Teacher Fellowship, Computer Science   *2016–Present*
- Participate in a community of exceptional educators through monthly professional development and focused collaboration.
    - Led Web Development I: creating and hosting responsive front-end websites
    - Led Web Development II: creating and deploying API-fed full-stack web applications

Fellowship, Mathematics   *2011–2016*
- Selective five-year fellowship program with a mission of improving secondary public education. In addition to a full-ride graduate degree, fellowship required a four-year teaching commitment and provided mentoring and professional development support in addition to pre-service training.

New York University   New York, NY
Master of Arts, Mathematics Education   *May 2012*

Colorado State University   Ft. Collins, CO
Bachelor of Science, Mathematics Education   *December 2010*

New York State Transitional Certification in 7-12 Computer Technology   *Fall 2017*
New York State Professional Certification in 7-12 Mathematics   *Summer 2017*
New York State Initial Certification in 7-12 Mathematics   *Summer 2012*

Experience

High School of Telecommunication Arts and Technology   Brooklyn, NY
Teacher, Software Engineering Coordinator   *September 2012 to Present*
- Teaching 12th grade AP Computer Science A *(2019–Present)* – Objected-oriented programming through Java.
- Teaching 11th grade Software Engineering *(2020–Present)* – Javascript, manipulating the DOM, and P5js.
- Teaching 10th grade Software Engineering *(2015–Present)* – Github, HTML5, CSS3, and Bootstrap.
- Taught Intro to Computer Science *(2019–2020)* – Data, Networks, and Programming.
    - Created this piloting curriculum to prepare for next year's school-wide CS4All initiative.
- Created 4-year spiraled independent study projects in which students learn, build, and present innovations.
- Creating curriculum that uses Javascript for programming fundamentals, DOM manipulation, and interactive art.
- Previously taught other topics: Ruby+Sinatra, Python, Robotics, Arduino, Makey Makey, and Google Sheets.
- Coach teachers new to Software Engineering in the creation and implementation of curriculum.
- Coordinate workshops, panels, field visits, and internships with PENCIL, Deloitte, and other companies.
- Coordinate end-of-year informal project Expos for all students, then coach finalists for a formal Showcase.
- Recruit new students through video and website promotion, parent correspondence, and application vetting.
- Gained 300+ hours of professional development for the rollout of the NYC Software Engineering Program (SEP).
- Led professional development among school staff including the usage and optimization of tech-based formative assessment services, self-built progress report template automation, new laptops, and other educational tools.
- Advised the Photography Club, guiding students through advanced shooting and editing techniques *(2016–2019)*.
- Advised the Intersection, a club that discussed the Christian faith with openness to any participant *(2017–2019)*.

Landshaw Photography   Brooklyn, NY
Owner / Photographer   *2009–Present*
- Specialize in weddings, engagements, portraits, events, and videos.
- Designed, launched, and maintain a Wordpress website.
  - Purchased and set up a GoDaddy domain and Bluehost hosting.
  - Installed and implemented Prophoto theme and various plugins including Captcha Anti-Spam Filter, Floating Widgets, Numeric Slugs, Video Embed & Thumbnail Generator, and Column-Matic.
  - Manage database through FTP: website backups and private client-facing photos through FileZilla.

Flatiron School   New York, NY
Precollege Instructor   *Summer 2015*
- Completed pre-work in HTML, CSS, JavaScript, Ruby, Sinatra, and SQL (100 hours).
- Participated in an intensive boot camp centered around computer programming (50 hours).
- Co-taught Intro to Software Engineering where students built and deployed Model-View-Controller web applications (170 hours).

DeltaMath   New York, NY
Volunteer Programmer   *February 2013 – June 2015*
- Collaborated on a learning management system being used by over 2500 teachers.
- Used PHP and JavaScript to program interactive math homework modules including data collection (100 hours).

Tutor   Various Locations
Private   *Ongoing*
- Math, ages 14-24 (150 hours).

Mathnasium   *May 2010 – May 2011*
- Math, ages 6-18 (350 hours).

Academic Advancement Center   *September 2009 – May 2010*
- Math, ages 18-22 (350 hours).

Other

- Creating meal-planning web application using HTML/CSS/JS and Firebase for scalable user data (100 hours).
- Created Raspberry Pi dashboard with multiple calendars, voice-controlled lists, and photo collections (50 hours).
- Led professional development through SEP on front-end JavaScript activities and assessments (5 hours).
- Collaboratively prototyped a seat-time tracking application at a SEP teacher hack-a-thon (8 hours).
- Facilitated and participated in Flatiron School's evening Learn+Build sessions where adults shared their knowledge of various concepts in order to build computer programs (10 hours).
- Utilized Learn.co, an online learning platform, in order to develop an understanding of databases through ActiveRecord, an ORM for Ruby/SQL (50 hours).
- Frequent attendance of CSNYC meetups to contribute to activities and conversations around Computer Science and CS education (40 hours).

References

Xhenete Shepard   (718) 759-3400
Principal, High School of Telecommunication Arts and Technology   *xshepard@hstat.org*

David DeMartini   (718) 759-3462
Assistant Principal, High School of Telecommunication Arts and Technology   *ddemartini@hstat.org*

Daniel Fenjves   (646) 653-2633
Founder, Upperline School of Code   *daniel@upperlinecode.com*