Patricia M. Brent

patriciambrent@gmail.com – (865) 806-8059
SOFTWARE ENGINEER

EMPLOYMENT:

Phosphorus, Inc., New York, NY
Software Engineer, 2016 – Present

- Manage HIPAA Compliance, Monthly Financial Reporting projects
- Design, implement, test, and deploy new features for genetic lab management web portal
- Address and rapidly problem-solve user issues as part of weekly issue triager rotation, from releasing hotfixes up to performing server resets in AWS or Heroku
- *Technologies*: Scala, Java, Wicket, Spring, Hibernate, PostgreSQL, Ruby on Rails

Recombine, Inc., New York, NY
Junior Software Engineer, 2016

- Worked directly with genetic counselors, variant curators, other users to build responsive lab management portal as part of agile team
- Overhauled test result report generation logic and design to integrate with Mandrill/MailChimp
- Improved event logging to increase web portal security and simplify audit querying
- Engineered workflow enhancements, saving users 30 min/day of bioinformatics QC time
- *Technologies*: Scala, Java, Wicket, PostgreSQL, Ruby on Rails, JavaScript

Bronx Early College Academy, New York, NY
Tenured Mathematics Teacher & IB Diploma Programme Coordinator, 2012 – 2015

- Collaborated daily with staff, school partners, parents, students to grow the new IB programme
- Designed and implemented annual application process, examination procedures for 60+ students
- Managed successful IB programme authorization and development, including weekly staff training
- Planned and supervised school-wide IB activities, including newsletter, authorization festivities
- Rated effective each year and tenured upon eligibility, with student college acceptance > 95%

EDUCATION/CERTIFICATION:

Teachers College, Columbia University, New York, NY
Master of Arts in Mathematics Education with NYS Certification in Math Education, May 2011 (GPA: 4.0)
Math for America Fellow, 2010 – 2015 *(Selective math teaching fellowship with five-year commitment)*

The University of Chicago, Chicago, IL
Bachelor of Arts in Mathematics with honors; Bachelor of Arts in Psychology, June 2010 (GPA: 3.7)

RELEVANT COURSEWORK:

Mathematical Logic (CMSC 27700) ○ Statistical Models and Methods (STAT 23400) ○
Computer Science with Applications (CMSC 12100) ○ Topics in Discrete Mathematics (MSTM 5036)

RECENT PROJECTS:

Open-source appointment portal for women's health clinic via GitHub ○ MongoDB-powered blog using Java drivers, Maven ○ Story-driven puzzle game in Java/Unity ○ Code_eval programming challenges

VOLUNTEERING:

Girls Who Code – *Summer Internship Application Screener*, March 2016