Patricia M. Brent

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

SENIOR SOFTWARE ENGINEER

EMPLOYMENT:

Capital One – *Center for Machine Learning (C4ML)*, New York, NY
Senior Software Engineer, 2019 – Present; *Software Engineer* 2017 – 2019
- Automate custom AWS machine image creation as part of internal machine learning platform
- Drive team norms and best practices around code quality, security, compliance, DevOps, CI/CD
- Technologies: Python, Kubernetes, Docker, Jenkins, Ansible, Terraform, AWS: EC2, ASG, etc.

Phosphorus, Inc., New York, NY
Software Engineer, 2016 – 2017
- Lead External Database, HIPAA Compliance, Monthly Financial Reporting projects
- Design, implement, test, and deploy features for SaaS genetic lab management web portal
- Rapidly problem-solve user issues as part of weekly issue triage rotation
- Presented Lunch & Learn talk on Computer Security 101
- *Technologies*: Scala, Java, PostgreSQL, AWS, Spring, Hibernate, Ruby on Rails, Wicket, Jenkins

Recombine, Inc., New York, NY
Junior Software Engineer, 2016
- 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, PostgreSQL, AWS, Ruby on Rails, Heroku, Wicket, JavaScript/Angular

Bronx Early College Academy, New York, NY
Tenured Mathematics Teacher & IB Diploma Programme Coordinator, 2012 – 2015
- Managed successful IB programme authorization and development, including weekly staff training
- 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)

SIDE 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 ○ Social book review single-page app

VOLUNTEERING:

Application Screener for Girls Who Code Summer Internship; Grace Hopper Celebration Scholarships;
National Center for Women & Information Technology AspireIT