Patricia M. Brent

www.patriciambrent.com ○ (865) 806-8059 ○ *patriciambrent@gmail.com*

FULL-STACK SOFTWARE DEVELOPER

RECENT PROJECTS:

Ready Social Book Recommendation App
- Used React to create responsive, informative, live-updated user feed with hover boxes
- Combined Rails, PostgreSQL to provide personalize recommendations based on user ratings

MVC Server Framework
- Render appropriate data based on params, including nested arrays; flash error messages
- Technology used: WEBrick, Ruby; inspired by but not using Rails

Blogging App
- Implemented log in, sort by date, tags, post, comment, like functionality
- Technologies used: Java 8, MongoDB, Morphia, Spark, Maven, Freemarker, CSS/HTML

Usahidi SMSSync
- Open-source SMS gateway for Android built via GitHub in Java
- Refactored internal code in response to user-submitted bug fix requests

Quincunx Productions
- Contributed code, story decisions, and puzzle designs to collaborative game-making project
- Technologies used: Java, Unity3D

EMPLOYMENT:

Bronx Early College Academy, New York, NY
International Baccalaureate Diploma Programme Coordinator, 2013 – 2015
Tenured Teacher (Algebra, Geometry, Algebra 2/Trigonometry), 2012 – 2015
- Collaborate daily with staff, school partners, parents, students to grow the new IB programme
- Create, deliver original materials to communicate complex content, build problem-solving skills
- Designed and implemented annual application process, examination procedures for 60+ students
- Managed successful IB program authorization and development, including weekly staff training

DreamYard Preparatory High School, New York, NY
Teacher (Integrated Algebra), Advisor, 2011 – 2012
- Organized, taught successful math extracurricular to support 70% of students in credit recovery

Oak Ridge National Laboratory, Oak Ridge, TN
Research Assistant, Department of Computer Science and Mathematics, 2005 – 2007
- Designed, coded, ran various Natural Language Processing tasks using Java in a distributed Linux environment as part of Siemens national scholarship winning team

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:

App Academy ○ Codecademy JavaScript ○ MongoDB J101 for Java Developers ○
Mathematical Logic (CMSC 27700) ○ Statistical Models and Methods (STAT 23400) ○
Computer Science with Applications (CMSC 12100) ○ Topics in Discrete Mathematics (MSTM 5036)

SKILLS

Front-end: JavaScript, Ruby, Java, HTML/CSS, React, LaTeX
Back-end: PostgreSQL, Rails, MongoDB, Python, R, SPSS, Linux/Unix
Languages: English (fluent), Spanish (proficient)

linkedin.com/in/patriciambrent ○ github.com/pmbrent ○ codeeval.com/profile/pbrent/