

Patricia M. Brent

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FULL-STACK SOFTWARE DEVELOPER

RECENT PROJECTS:

Ready Social Book Recommendation App

- Created responsive, informative, live-updated user feed with hover boxes, in React
- Managed user authorization with BCrypt, including secured routing with Rails controller checks
- Combined ActiveRecord, PostgreSQL to provide personalized recommendations based on user ratings

Railing MVC Server Framework

- Routed requests and rendered appropriate data based on params, including nested arrays
- Technology used: WEBrick, Ruby (sans 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, Tenured Teacher 2012 – 2015

- Managed successful IB program authorization and development, including weekly staff training
- Created, presented original materials to communicate complex content, build problem-solving skills
- Designed and implemented annual application process, examination procedures for 60+ students

DreamYard Preparatory High School, New York, NY

Teacher (Integrated Algebra), Advisor, 2011 – 2012

- Organized, taught successful math extracurricular to support 70% of students in recovering credits

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, 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 (Full-Stack) ○ 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

Proficient: JavaScript, Ruby, HTML/CSS, React, PostgreSQL, Rails

Prior Experience: Java, MongoDB, Python, R, SPSS, Linux/Unix, LaTeX

Languages: English (fluent), Spanish (proficient)

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