

Patricia M. Brent

SOFTWARE DEVELOPER
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RECENT PROJECTS:

Ready: Social Book Recommendation App @GitHub (JavaScript, Rails, PostgreSQL, React.js)

- Combines ActiveRecord with PostgreSQL to personalize recommendations based on user ratings and provide an up-to-date feed of recent activities using custom SQL queries
- Manages user authorization with BCrypt, including secured routing with Rails controller checks
- Leverages React lifecycle methods, Flux architecture to provide information on demand without load time

Railing: MVC Server Framework @ GitHub (Ruby, WEBrick)

- Routes requests and renders data based on params, including nested arrays
- Dynamically defines and calls methods to facilitate controller-router communication

Minefinder: Browser Game @GitHub (JavaScript, React.js, CSS/HTML)

- Synthesizes React components with JS OOP design patterns to dynamically render on user interaction

Untitled: Quincunx Productions (Java, Unity3D)

- Contributed code, story decisions, puzzle designs to collaborative game-making project

SKILLS:

Proficient: JavaScript, Ruby, Ruby on Rails, React, JQuery, SQL, PostgreSQL, Git, HTML, CSS

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

Languages: English (fluent), Spanish (proficient)

EDUCATION/CERTIFICATIONS:

App Academy, New York, NY

Dec. 2015

Intensive 3-month full-stack web developer training, focused on current design patterns and tech

Teachers College, Columbia University, New York, NY

May 2011

Master of Arts in Mathematics Education with NYS Certification, GPA: 4.0

Math for America Fellow, 2010 – 2015 (*Selective math fellowship with five-year commitment*)

The University of Chicago, Chicago, IL

June 2010

Bachelor of Arts in Mathematics with honors; Bachelor of Arts in Psychology, GPA: 3.7

RELEVANT COURSEWORK:

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

EMPLOYMENT:

Bronx Early College Academy, Bronx, NY

2012 – 2015

International Baccalaureate Diploma Programme Coordinator, Tenured Mathematics Teacher

- Managed school-wide, international accreditation program, led weekly training for 15-40
- Awarded tenure immediately upon eligibility for exceptional work (Algebra 2 - Calculus)

DreamYard Preparatory High School, Bronx, NY

2011 – 2012

Teacher (Integrated Algebra), Advisor

- Created extracurricular program to support 70% of students in recovering algebra credits

Oak Ridge National Laboratory, Oak Ridge, TN

2005 – 2007

Research Assistant, Department of Computer Science and Mathematics, 2005 – 2007

- Designed, coded, and presented various Natural Language Processing tasks using Java in a distributed Linux environment as part of Siemens national scholarship winning team