

# Patricia M. Brent

SOFTWARE DEVELOPER  
NEW YORK, NY

[www.patriciambrent.com](http://www.patriciambrent.com)  
(865) 806-8059  
[patriciambrent@gmail.com](mailto:patriciambrent@gmail.com)

## 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**, New York, 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**, New York, 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