

# Jacob Shorty

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## Projects

### Chickadee- [Live](#) • [GitHub](#)

- Quiz app for learning bird songs, modeled after Duolingo
- Client-side Backbone.js consuming RESTful Ruby on Rails JSON API
- Creates quiz content using data provided by third-party APIs
- Audio and image files stored on AWS S3 for faster load in the future
- Minimizes perceived load time for variably-sized files by leveraging a responsive design through jQuery animations and AJAX requests

### Petri Dish- [Live](#) • [GitHub](#)

- Arcade-style JavaScript browser game using HTML5 canvas
- Movement of animated sprites dictated by vector algebra

### Chess- [GitHub](#)

- CLI game in pure Ruby, carefully adheres to DRY principles with class inheritance
- AI attempts for a fool's mate if available; Human/AI players have identical API

## Skills

Ruby, Rails, JavaScript, Backbone, jQuery, SQL, PostgreSQL, Git, HTML, CSS, Python, Flask,RSpec

## Education

### App Academy- New York, New York (2015)

Intensive 12-week program focused on full-stack development for the web, emphasizing coding style and best practices. Highly selective (< 5% acceptance).

### Bowdoin College- Brunswick, Maine (2008-2012)

- BA Biology, GPA 3.5 (Dean's List, Departmental Honors)
- Conducted two years of research, leading to peer-reviewed [publication](#) on fish ecology using logistic regression, CART/decision trees, and ArcGIS
- Coursework in ecological modeling, population biology, biostatistics, and logic

## Experience

### Direct Support Professional- Creative Trails, Portland, ME (2014)

- Expanded outdoor programming at a program for adults with intellectual disabilities.
- Facilitated a 20% increase in daily program caseload.

### Field Biologist/Technician- Idaho Bird Observatory, US Fish & Wildlife Service (Maine), Institute for Bird Populations (Saipan) (2012-2013)

- Improved analysis & management of seabirds and migratory/resident songbirds.
- Increased colony survival rate by ~30% through predator control and chick shelters.