

Matthew Dubin

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PROJECTS **Photostash** (*Rails, React/Flux*) | [live](#) | [github](#)

Photo sharing app based on Instagram

- A personalized photo feed that shows the most recent photos from a user's friends.
- Custom made user authentication by overwriting the password= method using Bcrypt.
- Optimized image delivery through Cloudinary, an image hosting backend service.

Squirrel Chase (*Javascript, HTML5, Rails*) | [live](#) | [github](#)

Arcade style acorn grabbing game

- A Persistent leaderboard keeps track of high scores with a Rails server backend.
- Squirrels track the player by calculating the arctan between the player and the squirrel.

Chess (*Ruby*) | [github](#)

The classic game of strategy

- Move validation logic allows a user to see all possible moves for a given piece.
- Self check is prevented by duplicating the board for each move and checking the state.
- Pieces use inheritance and mixins to keep code DRY.

SKILLS

Ruby	Rails	JavaScript	jQuery	React.js
Flux	SQL	Git	HTML/CSS	Python

EXPERIENCE **Research Technician** **August 2012 – July 2014**

Fred Hutchinson Cancer Research Center, Seattle, WA

- Used bio-molecular protocols to collect data on stickleback genetics and morphology.
- Used R and other statistical tools to analyze data.
- Published in [Genes, Genomes, Genetics](#)

Laboratory Assistant **July 2011 – July 2012**

Fred Hutchinson Cancer Research Center, Seattle, WA

- Ran behavioral tests, used bio-molecular protocols and analyzed data.

EDUCATION **App Academy January 2016 – March 2016**

- 1000-hour intensive web development training program with an acceptance rate < 5%.
- Emphasis on pair programming, Test Driven Development, and best practices.

Duke University – PhD Candidate in Cell and Molecular Biology **2014 –2015**

- Used Python and BioPython to measure the genome wide rate of genetic recombination in fruit flies (*Drosophila pseudoobscura*).

- Published in [Genome Biology and Evolution](#) | [github](#)

Chancellors Scholarship, offered to the top five applicants each year.

University of Puget Sound –Bachelor of Science in Biology **2006 –2009**

- Member of Phi Sigma honorary society.

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