

# Juraj Cech

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

## Projects

### DaguerreoTyp

Full-Stack Engineer

[Live](#) · [Github](#)

- Instagram for the steampunk in all of us. Single-page React app consuming RESTful JSON Rails API.
- Fast database lookups and easy formatting of any image with cloud storage of images using Cloudinary widget rather than compression.
- Custom authentication using BCrypt, overrides User#password= method to store secret hash instead of plain text.

### BlockBreakers

Front End Engineer

[Live](#) · [Github](#)

- A version of the classic Breakout game in pure JavaScript.
- Sensitive and differential collision detection enables more realistic gameplay and increased bounce control with paddle.
- Pausing game and varying block counts and ball speeds creates several difficulties and increasingly challenging levels.

### Chess

Back End Engineer

[Github](#)

- A version of the classic Breakout game in pure JavaScript.
- Depth-first search or breadth-first search determines valid moves of individual pieces.
- Pieces inherit from SlidingPiece and SteppingPiece classes which inherit from Piece class.

## Skills

Ruby · Ruby on Rails · JavaScript · React.js · Node.js · jQuery · SQL · git · HTML · CSS

## Education

**Master of Science, Entomology** University of Illinois, Urbana-Champaign: May, 2011

**Bachelor of Science with Honors, Biology** George Mason University: May 2009

## Experience

### Chargeback Disputes Analyst

Square, Inc.

San Francisco, CA — 2015

- Analyzed data dealing with cardholder initiated chargeback disputes using pivot tables, vlookups, and macros to determine whether fraudulent charges were made by merchants.
- Negotiated between financial institutions, their cardholders, and merchants to resolve disputes of charges.

### Mathematical Analysis of *Bombus* Dorsal Color Patterns (Apr 2014 – Present)

University of Illinois

Urbana-Champaign, IL — 2009 - 2011

- Built novel scripts in R and Matlab to statistically analyze the spatial composition of bumble bee color patterns and determine if they belong to an evolutionary mimicry complex.
- Implemented Unix command-line BLAST searching of genomic sequence database to assemble Oderant Receptor 83b gene of *Rhagoletis pomonella*.