

Daniel Herr

Projects

φ mail, *Rails*, *React.js/Flux*, ([Live](#), [GitHub](#)).

- Messages update conversations when linked so that they may be correctly ordered.
- Custom routes allow batch updating of conversations to mark important or read.
- Sets and resets timeouts to auto-save users' drafts during two second inactivity.

Asteroid Hell, *JavaScript*, *HTML5 canvas*, *jQuery*, ([Live](#), [GitHub](#)).

- Detects collisions using vector algebra and the separating axis theorem.
- Constructs and manages an upgrades menu using JQuery.

ARecord-lite, *Ruby*, *SQL*, ([GitHub](#)).

- Defines a standard model class for rows in a database.
- Constructs appropriate queries and joins to associate models.

Open Books on Contact Three Orbifolds, ([Text](#)).

- Won the UMass Math Department 2013 Distinguished Thesis Award
- Extends Giroux's foundational correspondence between Contact Structures and Open Books to the Symmetry-Invariant case.

Skills

Ruby	JavaScript	SQL	HTML/CSS	L ^A T _E X
Rails	React.js	Flux	jQuery	Git

Education

2015 - 2016 **App Academy**.

- Immersive, full-stack web development training program
 - Acceptance rate under 3%
 - Emphasis on pair programming, test-driven development, and best practices.

2007 - 2013 **University of Massachusetts**, *Ph.D. in Mathematics*.

- GPA: 3.97

2002 - 2006 **Oberlin College**, *B. A.*

- GPA: 3.52
- Major: Mathematics, Minor: Computer Science

Employment

2013 - 2015 **Visiting Assistant Professor**, *Wheaton College*, Norton, MA.

- Taught approximately ninety students per semester in Calculus, and Statistics.

2007 - 2013 **Teaching Assistant**, *University of Massachusetts*, Amherst, MA.

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