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PROJECTS

Goodcode **Rails, React** **[live](#) | [github](#)**

- A single-page app with secure user authentication. Allows users to review computer programs.
- Inspired by Goodreads, users can add programs, write reviews, and mark programs they have used.

Personal Site **Rails, Node.js, Nginx, React** **[live](#) | [github](#)**

- A site listing my personal projects and blog posts. Served using an Nginx reverse proxy.
- Blog posts rendered in markdown with inline LaTeX rendering and syntax highlighting of code snippets.

Checkers **React, Redux** **[live](#) | [github](#)**

- A fully playable checkers game. Implements a drag-and-drop interface using React DnD.
- Implements AI opponent to play against user.

SKILLS

Ruby ◇ Ruby on Rails ◇ JavaScript ◇ React ◇ Redux ◇ SQL ◇ Scala ◇ Git ◇ VIMScript

EMPLOYMENT

Instructor **App Academy Coding Bootcamp** **Fall 2016–Present**

- Managed development of core curriculum: supervised introduction of React Router v4 to curriculum.
- Delivered lectures on Ruby, Rails, Javascript, React. Recorded video lectures; wrote assigned readings.
- Supervised student final projects creating full-stack web apps using Rails and React.

Visiting Assistant Professor **Department of Mathematics, University of Iowa** **Fall 2015–Spring 2016**

- Produced original research in number theory, specializing in the Langlands program.
- Designed and taught courses in calculus and linear algebra; received positive student evaluations.

Lab Assistant **Department of Physics, University of Iowa** **Spring 2006–Spring 2008**

- Integrated new equipment into computer-controlled LED testing system written in LABView.
- Implemented real-time display of scan data with graphing and comparison features.

EDUCATION

Dotcor of Philosophy **University of Iowa** **Fall 2009–Spring 2015**

- Ph.D. in Mathematics, GPA 3.86
- Dissertation: [Split Covers for Certain Representations of Classical Groups](#)
- Coursework: Abstract Algebra, Real and Complex Analysis, Differential and Algebraic Topology

Bachelor of Science **University of Iowa** **Fall 2006–Spring 2009**

- B.S. in Mathematics, GPA 3.86; B.S. in Physics, GPA 3.45; Dean's List
- Coursework: Quantum Mechanics, Electrodynamics, Electronics, Multivariable and Vector Calculus, Linear Algebra, Differential Equations, Real and Complex Analysis