

# NATE FESTINGER

Web Developer

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		917.499.4198
		nate.festinger@gmail.com
		www.natefestinger.com
		sonataFarm
		natefestinger

## SKILLS

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Ruby • Rails • JavaScript  
React.js • Redux • ES6 • JSX  
SQL • Git • HTML5 • CSS3

## EDUCATION

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### App Academy (2017)

Rigorous 1000-hour software development course with <3% acceptance rate

Subjects include: TDD, scalability, algorithms, OOP, coding style, RESTful routing, user authentication, single-page apps, web development best practices

### Relevant Online Courses

- **Harvardx** CS50 - Intro to CS
- **MITx** Intro to CS in Python
- **UBCx** Systematic Program Design
- **Stanfordx** Introduction to Mathematical Thinking
- **Thinkwell** Precalculus
- **UTAx** Effective Thinking Through Mathematics

## PROJECTS

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### Sonatify (Rails, React/Redux, JavaScript, PostgreSQL)

[Live demo](#) | [GitHub](#)

Full-stack single-page Spotify clone with a focus on classical music.

- Leverages AWS S3 for secure audio storage and retrieval
- Utilizes hot loading for on-the-fly data retrieval, throttling load-times for a seamless user experience
- Implements user authentication via bcrypt and session tokens

### Cubes in Space (JavaScript, Three.js, HTML5 Canvas)

[Live demo](#) | [GitHub](#)

Interactive 3D digital art project utilizing Three.js for 3D animation and HTML5 for pixel manipulation.

- Utilizes HTML5 Canvas for performant pixel control to dynamically render a randomized environment
- Extends Three.js classes, using OOP to further abstract and encapsulate 3D objects and their methods

### Lost in Wiki (Rails, React/Redux, JavaScript, Three.js)

[GitHub](#)

Collaborative project. Game representing Wikipedia pages as stars in a 3D starfield; players must navigate to a destination page in a given amount of time, traversing via page links.

- Worked in team of three to quickly develop product using a collaborative GitHub workflow
- Integrates Wikipedia API with custom requests, fetching only necessary data to ensure minimal bandwidth usage
- Combines Three.js with React/Redux, using class extensions of Three.js objects to achieve a highly modular design

## WORK HISTORY

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### Web Admin/Piano Faculty (2013-2016)

The New York Piano Academy

- Designed and implemented new website to reflect academy's brand, resulting in a 25% increase in enrollment over one year
- Maintained and updated website; designed print materials
- Taught classical piano lessons to a diverse studio of child and adult students

### Project Manager (2011-2013)

Media Partners

- Managed strategy and technical operations for e-commerce website, doubling site revenue
  - Implemented database integration with Microsoft Access, allowing for valuable data analysis via relational queries
  - Coordinated with developers to design, maintain and update website
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