

# Chad Bergman

charles.s.bergman@gmail.com • <https://www.linkedin.com/in/bergmancharles> • (913) 230-6226  
• Github: <https://www.github.com/drbaryon> • Portfolio Site: <http://www.chadbergman.pro>

---

## Skills

Ruby • JavaScript • Rails • jQuery • React • SQL • Java • Git • HTML5 • CSS3  
REST • Autodesk Inventor • 3D Printing • CNC Machining

---

## Projects

**Questa**, Stack: Rails, React.js, PostgreSQL, AWS, SJCL, HTML, CSS, Git [Live](#) | [GitHub](#)

- Built a Full Stack Q&A application with React front end and client side encryption.
- Employed Jbuilder to render views as deeply-nested JSON objects, enabling easy representation of the data's hierarchical structure.
- Built modal React components for user input to minimize visual clutter.

**KittyGrabber**, Stack: Javascript, CreateJS, HTML, Git [Live](#) | [GitHub](#)

- Built JS game that generates a swarm of cat objects, updates and tracks their position, and allows user interaction through drag-and-drop.
  - Incorporated EaselJS to render content as a canvas element, minimizing HTML frontend.
  - Employed spritesheets and created independent tickers for each cat object to allow sprites to cycle at a lower rate than the canvas's FPS, improving realism of motion.
- 

## Education

**App Academy**, New York, NY **March 2017**

- Rigorous 1000-hour software development course with <3% acceptance rate.
- Teaches **full-stack** web development: Rails, SQL, JS, React, TDD, algorithms, security, design patterns, and programming best practices.

**Dartmouth College**, Hanover, NH

B.A in Economics **April 2015**

- Classes included economics, statistics, calculus, quantum mechanics, astrophysics, computer science, engineering/design, and humanities.
  - GPA 3.25; GRE **169V/170Q**
- 

## Experience

**Thayer School Machine Shop Teaching Assistant** **February 2016 – Oct 2016**

- Operated a CNC mill, CNC lathe, laser cutter, and acetylene torch among other tools.
- Advised Dartmouth faculty on **prototype fabrication** at a top-tier engineering school.
- Instructed an audience with no experience with these tools on effective operation.

**Tutor.com Physics and Calculus Online Tutor** **Sep 2012 – January 2016**

- Provided private instruction to individuals to improve academic performance.
- Reviewed class material with students by working solutions to problems.