

GAUTHAM VARADARAJAN

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TECHNICAL EXPERIENCE

TETHERMEDIA LLC

November 2015 – January 2016

Project Development Intern

Cedar Knolls, NJ

- Used jQuery to create profile picture upload and edit functionality for user accounts of realtor app
- Set up a custom server for Surespot (an encrypted message app for android) thereby confirming its flexibility for various customizations in a medical consulting app

COLUMBIA UNIVERSITY

December 2013 – August 2014

Research Assistant (Department of Astronomy)

New York, NY

- Searched for light echoes in supernovae, narrowing the candidate field for future research

PROJECTS

[SOUNDSALLAROUND](#) (Ruby, Rails, React)

- Created responsive audio visualizations for track playback using CSS3 transitions
- Keeps code DRY and modular by reusing React components
- Transfers data between backend and frontend via AJAX requests to a RESTful Rails API
- Minimizes the amount of database queries executed per request to allow for scale

[HADRON.JS](#) (JavaScript)

Physics Engine for Movement and Collision of Objects

- Uses derived algorithms for handling collisions of objects, resulting in realistic game physics
- Implements an algorithm for accurate surface friction on the motion of objects

[JUNIOR POOL](#) (JavaScript, HTML5 Canvas)

- Renders objects quickly, smoothly, and efficiently using HTML5 Canvas
- Implements Hadron.js (see above) to simulate pool ball collisions
- Uses nested JavaScript event handling for mouse click and drag to create a responsive user interface

SKILLS

Ruby, Rails, JavaScript, jQuery, React.js, C/C++ (including STL), Flux, SQL, Git, HTML5, CSS3, Python

EDUCATION

APP ACADEMY

February 2016 – May 2016

- 1000 hour coding bootcamp with < 3% admissions.
- Strong emphasis on pair programming and best practices

New York, NY

THE UNIVERSITY OF CHICAGO

Bachelor of Sciences in Physics and Mathematics, GPA: 3.2

Chicago, IL

September 2009 – June 2013

