

# Zack Yu

447 58th St. • Brooklyn, New York • 11220

**E-MAIL** zack.yu2@gmail.com • **CELL** (917) 215 - 8873

**PORTFOLIO** [www.zackyu.com](http://www.zackyu.com) • **GITHUB** [github.com/zackyu](https://github.com/zackyu) • **LINKEDIN** [linkedin.com/zack-yu](https://linkedin.com/zack-yu)

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## SKILLS

**Ruby • Ruby on Rails • JavaScript • React • Redux • jQuery • HTML5 • CSS3 • SQL • Git**

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## PROJECTS

### Map My Trot (Rails, ReactJS, Redux)

[live](#) | [github](#)

*Social media platform that allows users to track and share running activity.*

- Integrated Google Maps API with geolocation-based search for easy route creation.
- Implemented infinite scrolling and pagination to increase browsing efficiency.
- Created Activity Feed using polymorphic associations and custom SQL queries.
- Optimized data fetching with eager loading to eliminate N+1 queries.
- Encrypted HTTP client traffic with secure socket layer protocol.

### Bubble Dungeon (JavaScript, Easel.js)

[live](#) | [github](#)

*HTML5 Canvas game inspired by Bubble Shooter.*

- Implemented a queue and breadth-first-search algorithm to find matching bubbles.
- Created projectile physics (bouncing and colliding) using vector math.

### zQuery (JavaScript)

[github](#)

*DOM manipulation and traversal library written in JavaScript.*

- Executes AJAX requests through use of XHR and returns a promise.
- Allows for creation, selection and alteration of HTML elements.

## EXPERIENCE

### Financial Analyst - Bank of America (Jun 2014 - Jun 2016)

- Wrote VBA scripts to automate expense and net-flow report processes.
- Conducted trend analysis on revenues, expenses and net flows for strategic planning.
- Simplified and implemented controls for the profit & loss statement, reducing preparation time by 30%.

### Volunteers for Peace Vietnam - Ubelong (Mar 2014 - Apr 2014)

- Planned English lessons and provided classroom instruction to orphans aged 14 to 16.
  - Cared for children with birth defects related to Agent Orange exposure.
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## EDUCATION

### Web Development - App Academy (Fall 2016)

- Rigorous 1000-hour full-stack development course with an acceptance rate < 3%.

### Bachelor in Business Administration - Baruch College, Class of 2014

- Major - Finance & Investments; Minor - Economics; GPA 3.65