# CARLO JACOB

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## ✚ WEB DEVELOPMENT EXPERIENCE

### General Assembly
Boston, Mass.
#### Web Development Fellow
2018 to 2019
- Completed 12-week, full-time immersive full-stack web development bootcamp.
- Studied web development in four modules, each with its own project.
- Each project focused on various skills in front- and back-end web development.
- Completed three projects individually, and one in a development team.

### PROJECTS:

#### Tuber
Mar. 2019
- Application that allows a user to manage their favorite YouTube videos.
- Built using React on the front end, including responsive design with Bootstrap.
- Used Express.js to build the back-end relationships.

#### Nozama
Feb. 2019
- Acted as scrum master of development team for mock e-commerce website.
- Used agile methodologies to manage feature building.
- Used test mode from third-party API for processing mock payments.

#### Bike Ridr
Feb. 2019
- Developed the full stack for this web application, with CRUD to an API for user authentication and bike ride history.
- Application allows cyclists to enter and edit data from completed bike rides.
- Used Ruby on Rails to scaffold database tables, including resource relationships.
- Used HTML, CSS, JavaScript, jQuery and AJAX to create the user interface, application logic, and API interactions.

#### Tic-Tac-Toe
Jan. 2019
- Wrote the front-end for a Tic-Tac-Toe web application, with CRUD to an API for user authentication and game history.
- Used HTML, CSS, JavaScript, jQuery and AJAX to create the user interface, game logic, and API interactions.

## ✚ ADDITIONAL EXPERIENCE

### TranSystems Corporation
Boston, Mass.
#### Structural Bridge Design Engineer
2011 to 2018
- Optimized designs of irregularly-shaped bridges and increased efficiency of analyses with custom functions in Excel/bridge design software packages.
- Produced bridge construction plans, specifications, cost estimates and calculations in a design team.
- Project values ranged from $30,000 to $40,000,000.
- Provided construction phase services to contractors and material fabricators.

## ✚ SKILLS

| LANGUAGES & VERSION CONTROL | LIBRARIES & FRAMEWORKS |
| --- | --- |
| HTML5 | React.js |
| CSS3 | jQuery |
| JavaScript | Rails |
| Ruby | Express.js |
| AJAX | Node.js |
| Curl | mongoDB |
| SQL | mongoose |
| Git | PostgreSQL |
| GitHub | Bootstrap |
| Heroku | Handlebars |
| | SASS |

## ✚ EDUCATION

### Tufts University
M.S. Civil Engineering 2010
B.S. Civil Engineering 2007
Thesis: Creating an Eccentrically Braced Frame Model for Application in Seismic Performance Assessments

## ✚ ACTIVITIES

### Boston Triathlon Team
Athletic Director  2016 to Present

- Elected board member.
- Operation and strategic direction.
- Collect and display race results on webpage.
- Manage annual Indoor Time Trial.

## ✚ INTERESTS

Triathlon, Soccer, Skiing, the Outdoors, Travel, Cultures, Trivia