

# Aly Tamboura

San Francisco, CA  
408.821.3010  
alytamboura7370@gmail.com

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LinkedIn: [linkedin.com/in/aly-tamboura](https://www.linkedin.com/in/aly-tamboura)

GitHub: [github.com/Aly-Tamboura](https://github.com/Aly-Tamboura)

Portfolio: [alytamboura.com](https://alytamboura.com)

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## >LANGUAGES AND TECHNOLOGIES

- **Proficient:** JavaScript (ES6), ReactJS, D3.js, React Native, AngularJS, Node.js, Express, MongoDB, SQL, SQLite, PostgreSQL, MySQL, Git, Heroku, jQuery, HTML5, CSS3, Chai, Mocha, WordPress
  - **Exposure:** Backbone.js, Redux, PHP, Grunt, Webpack, Socket.IO, PubNub
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## >PROFESSIONAL EXPERIENCE

### The Last Mile | Software Engineer | San Francisco, CA

2014 - Present

- Engineered [social media dashboard for Airbnb](#) to visualize historical data on mass communication platforms using JavaScript, ReactJS and Node.js, optimizing preparation time for board meetings by > 20%.
- Architected custom MongoDB schema using Mongoose to persist historical social media account data trends on 7.7 million Facebook likes, 600,000 Twitter followers, and 11.4K Pinterest members.
- Developed animated infographic to educate voters on "[The Politics of Vaccine](#)" using JavaScript, D3.js and custom CSS3 media queries to ensure mobile responsiveness across 5+ devices.
- Integrated Velocity.js into JavaScript front end views to animate scalable vector graphics (SVGs) at 30 fps.
- Constructed "[Project Tycho](#)" -- a web platform to display visualized time series data on childhood diseases over the last 80 years for the University of Pittsburgh utilizing JavaScript, D3.js and CSS3.
- Built Learning Management System using JavaScript, Chai and Mocha to teach incarcerated individuals how to code, providing automated testing for 700+ question midterms and finals used across 5 state facilities.
- Created custom WordPress themes and data visualization in JavaScript and PHP, saving company more than \$9000 annually in framework recurring costs.
- Streamlined team management by integrating agile methodologies increasing monthly billable hours by 12%.

### State of California | Web Developer | Marin County, CA

2012 - 2014

- Increased the organization's digital footprint by 40,000+ visits monthly (80X improvement) through creating digital newspaper website using WordPress, JavaScript, D3.js, HTML5, and CSS3.
  - Crafted infographic spanning 24 categories with over 30,000 data points using JavaScript and Nvd3 to display statistics on state and federal run organizations.
  - Implemented SEO campaign and prepared analytics reporting on social media, online and email marketing.
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## >SIDE PROJECTS

### Car-Go | Software Engineer | [code](#)

2017

*Carpool platform designed to connect users and enable them to create rideshares based on location and time of day.*

- Componentized iOS mobile views utilizing React Native and Redux to efficiently maintain application state.
- Maximized data update speed at scale, reducing latency by 20% by integrating PostgreSQL DB using Knex.
- Incorporated Google Maps, PubNub and Socket.IO to facilitate real-time device geo-location tracking.

### Leplonger | Software Engineer | [code](#)

2017

*Scuba diving map of California dive sites with ocean and surface weather along with the latest user provided ratings.*

- Displayed ocean and surface weather for individual dive sites by integrating National Oceanic and Atmospheric Administration API into Node.js RESTful API to be consumed by ReactJS front end views.
- Utilized SQL inner and outer join tables to reduce lookup latency at scale in MySQL database by over 10%.
- Eliminated need for page routing while speeding up UI by 2% through building custom modals in JavaScript.

### Ticket-Champ | Software Engineer | [code](#)

2017

*Ticket price aggregator comparing cost of admission for multitude of event types from different vendors.*

- Compared ticket prices of local venues by integrating industry APIs into custom JavaScript algorithm to compare prices and supply users with lowest prices, saving an average of 15% per purchase.
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## >EDUCATION

**Civil Engineering**, San Jose State University

**A.A. General Studies**, Patten University