

# MICHAEL ZHU

SOFTWARE ENGINEER

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## SKILLS

- JavaScript
- React
- Ruby
- Ruby on Rails
- Redux/FLUX
- HTML/CSS/SASS
- Express.js
- MongoDB
- Node.js
- PostgreSQL/MySQL
- jQuery
- RSpec
- Git
- Websocket
- Test Driven Development

## EDUCATION

### UC BERKELEY

B.A. Economics  
2011 – 2015

### APP ACADEMY

Complete 1000-hr  
program at top-rated SF  
code school  
2017

## PROJECTS

### TACTICAL WARFARE

[Live](#) | [GitHub](#)

*(Babylon / Node / Express / Socket.io / MongoDB / HTML5 / CSS3)*

#### Architected and built a 3D 2-player competitive online tank game (1 wk)

- Designed 3D game scenes, gameplay physics and animations with Babylon.js for better visualization and realistic user interface
- Built entire back-end framework for user authentication with Express.js, Node.js and MongoDB
- Utilized Socket.io to establish a two-way (bi-directional) ongoing conversation between two players for chat and game state synchronization
- Led key features proposal, planning to implementations and facilitated discussion over important potential issues

### ZOOMM

[Live](#) | [GitHub](#)

*(JavaScript / React / Redux / Sass / jQuery / Rails / Postgres)*

#### Built a photo-sharing web application inspired by 500px (10 days)

- Implemented responsive design, Redux architecture, RESTful JSON API rendering jBuilder views, and hand-rolled user authentication using MVC web framework
- Employed Active Record to maintain and store relational data between users, their followers, uploaded photos, etc.

### DOODLE FALL

[Live](#) | [GitHub](#)

*(JavaScript / HTML5)*

#### Created a vertical-scrolling game similar Doodle Jump with Vanilla JavaScript (1 wk)

- Used DOM manipulation to populate and control animations
- Leveraged Object-Oriented Design to manage collision detection and resolution
- Utilized asynchronous event handlers to manage game logic and reset functionality

## EXPERIENCE

### FABRIC GENOMICS

Financial Analyst / Oakland, CA / Jan 2017 – Jul 2017

- Implemented Customer Relationship Management software and trained sales team to improve streamlining the sales process
- Developed numerous forecasting models to examine company's projected short- and long-term growth based on key indicators, sales projections, cash flow analysis, and assets valuation
- Integrated a cloud-based solution for employee's equity plan management

### ETHOS LENDING

Financial Analyst / San Francisco, CA / Jun 2015 – Oct 2016

- Performed profit variance analysis and salvaged thousands of dollars from the investors for the company.
- Designed and implemented scalable FP&A and financial processes that support the needs of a dynamic business