

MICHAEL ZHU

SOFTWARE ENGINEER

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SKILLS

- JavaScript
- React
- Ruby
- Ruby on Rails
- Redux/FLUX
- HTML5/CSS3/SASS
- Express.js
- MongoDB
- Node.js
- PostgreSQL/MySQL
- jQuery
- RSpec
- Git
- Websocket
- Test Driven Development
- RESTful Architecture

EDUCATION

U.C. BERKELEY

B.A. Economics
2011 – 2015

APP ACADEMY

Software Engineering
Completed 1000-hr
program at top-rated SF
code school
2017 - 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 – July 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 / 2015 – 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