##################
San Francisco, CA 94109

MICHAEL PARLATO

(###) ###-####

PROJECTS

iRetain (Ruby on Rails, React.js, Redux) | *Sole Developer* **live | github**

Web app that allows users to create and study decks of topical flashcards

- Created reusable React components for all form types to DRY code base
- Designed and implemented browser-like tab UI from scratch using HTML5 and SASS
- Implemented auto-lookup feature that utilizes Pearson dictionary API to create flashcards
- Augmented app with Chrome extension, allowing cross-domain creation of flashcards while browsing

Transit PathFinder (JS, jQuery, CSS, HTML5 Canvas) | *Sole Developer* **live | github**

Web app that allows visualization of search algorithms using transit maps

- Integrated app with transit authority APIs to pull real time data on subway systems
- Developed algorithm to build connected graph from incomplete and inconsistent data sources
- Animation and styling done solely in HTML5 and CSS (no external libraries)

LiteRail (Ruby, SQLite3) | *Sole Developer* **github**

A lite version of Ruby on Rails framework with ActiveRecord, both built from scratch

- Created object relational mapping to connect user to database without the need to write SQL queries
- Complimented design with single-command-generation of models and controllers from terminal
- Designed dynamic error handling with code snippets and stack trace displayed in browser

Hemoglobe (Plethysmography, Android OS, Embedded Systems) | *PM and Engineer* **demo**

Non-invasive anemia detection using pulse-oximeter-like device and mobile app

- Designed and implemented filtering and sampling algorithms for PIC microprocessor
- Managed clinicians and engineers including during overseas field trips and clinical studies
- Oversaw development and transfer of project from academic setting to licensing by Robert Bosch GmbH, a multi-national corporation

ASL Recognition (Matlab, Artificial Neural Networks) | *Lead Engineer* **demo**

Designed and implemented an application for the recognition of American Sign Language

- Responsible for feature definition and extraction, machine learning algorithm selection and training, and overall application architecture
- Achieved accuracy of > 95% in green screen, static character recognition

LANGUAGES AND TECHNOLOGIES

Javascript	Ruby	Python	Rails	CSS/Sass	jQuery	SQL	HTML5	ReactJS
Redux	Relay	GraphQL	Git	Matlab	RSpec	Mocha	RXJS	Jest

EDUCATION

App Academy **2016** **San Francisco, CA**

Johns Hopkins University **2013-2014** **Baltimore, MD**

M.S.E. in Bioengineering, GPA: 3.9 Development and commercialization of med-tech

University of West Florida **2009-2013** **Pensacola, FL**

B.S. in Electrical Engineering, GPA: 3.8 Minor in mathematics, focus in pattern recognition

EMPLOYMENT

Full Stack Engineer **OpenGov, Inc.** **2016 – present**

Startup transforming the way governments report, forecast, and share financial data

- Made key contributions to scaling collaborative, cloud-based, budget-building application
- Integrated across the stack, utilizing Rails, React, Relay, GraphQL and other cutting edge tools

CEO, Cofounder **Glyscend, Inc.** **2014 – 2016**

Life science startup developing novel treatment for type 2 diabetes

- Led diverse team of engineers, clinicians, and scientists from clinical need discovery and napkin sketch through seed funding and preclinical development in 2 year period
- Raised and managed a non-dilutive seed round of $615K from various sources

EMPLOYMENT

Project Manager **Johns Hopkins University** **2014 - 2015**

Managed IP-generating projects' transfer out of academic setting

- Coordinated teams of engineers and clinicians on a variety of engineering projects
- Co-authored several patents that were eventually licensed by major multinational corporations

Research Engineer **University of West Florida** **2012 – 2013**

Used movement data (actigraphy signals) to classify user activity and estimate energy expenditure

- Used Matlab to implement various machine learning algorithms to evaluate and accurately rank the effectiveness of 63 different features in classifying exercise behavior
- Presented results at IEEE Southeast Con 2013 in Jacksonville, FL