

Casey Colby

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technical skills

strong: JavaScript, jQuery, R, Node.js/Express, Git, Swift, HTML

experienced: MySQL, Handlebars, MongoDB, Mongoose, Sequelize, Firebase, CSS

applications developed

WCC Medical Chat App

- Chat application enabling multilingual communication between doctors and patients via the Google Translate API. Users see their conversations in their language of choice.
- Served as a back-end javascript developer focused on Firebase and Google Auth (authentication); Firebase Database, JavaScript, and jQuery (chat, multiple users); and Google Translate API (translation).
- <https://github.com/cecolby11/Medical-Chat> | <https://translation-chat-b2933.firebaseio.com/>

Want To Buy Candy

- E-commerce web application enabling users to login, view products for sale (by category), add products to a shopping cart, checkout, and view order history.
- Served as a back-end javascript developer focused on Node.js (server), Express.js (routing/api), express-handlebars (integrating handlebars with Express), express-session (adding session management to express), Passport.js (authentication), and the Stripe API (credit card processing).
- <https://github.com/cecolby11/ecommerce-app> | <https://calm-sierra-71011.herokuapp.com/>

professional experience

Intelligent Flying Machines, Inc.

2017

Freelance Robotics Interface Developer

- Developed a browser-based front-end interface to visualize data from an automated robotics system.
- Used at customer sites and during client demos with Fortune 500 companies.
- JavaScript, jQuery, HTML, CSS, ROSlib [interface to robot]

Child Language Development Lab, Northwestern University

Lab Manager & Software Developer

2016 - Present

- Utilized Swift, Realm databases, iOS Physics Engine and UIDynamicAnimator, and Core Graphics to develop iOS applications to expand the Child Lab's experimental capabilities with children.
- Abstracted complex R analyses into one-line package functions with widespread compatibility and detailed documentation with roxygen2.
- Programmed experiments in JavaScript and JsPsych.
- Performed data analysis and visualization in R.

Lab Manager

2015 - 2016

- Trained and oversaw all research assistants and graduate students on lab procedures, fostering an educational experience and goal-oriented motivation.
- Member of the founding team; created all standard operating procedures for training and research.
- Ran 22 studies investigating the language of events and quantification and analyzed preliminary data.

education

Northwestern University, Full-Stack Coding Bootcamp

2017

Northwestern University, Weinberg College of Arts and Sciences

2011 - 2015

Bachelor of Arts, *cum laude*, Economics and Linguistics, GPA: 3.74

Relevant Coursework: Fundamentals of Computer Programming I and II (C++, Racket), Intro to Computational Linguistics