# Casey Colby

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## technical skills

strong:  JavaScript, jQuery, R, React, Semantic UI React, Node.js/Express, Git, Swift, HTML
experienced: MySQL, Handlebars, MongoDB, Mongoose, Sequelize, Firebase, CSS

## applications developed

Green Charge
- MERN full-stack web app that charges IoT devices when the carbon footprint of the power grid is lowest.
- Served as a front-end react developer focused on React.js (rendering components and managing app state), React Router v4 (front-end routing), JWT and axios (authentication), React-Sparklines (data visualization), and Semantic UI React (layout/style).
- https://github.com/wilfriedbarth/Green-Charge | https://nucb-green-charge.herokuapp.com/

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.firebaseapp.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 - 2017
- 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 packages with widespread compatibility. 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