

# Casey Voss - Full Stack Developer

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A musician turned full-stack software developer and engineer: leveraging knowledge of object oriented programming (OOP), React, Django, Express, Node Package Manager (NPM), and ASP.Net to create full stack and backend applications that persist data with both SQL and NoSQL database structures. Utilizing JavaScript, HTML, and CSS libraries to create professional frontend applications. Strong ability to leverage creative strengths and musical sensibilities to make web applications, build out patterns, and polish work until the end-product is spectacular.

## TECHNICAL & INTERPERSONAL SKILLS

**Languages:** C#, C++, C, Python, JavaScript, HTML, CSS, SASS, EJS, Basic

**Libraries and Frameworks:** .Net, Node.js, React, Django, Express, Firebase, Bootstrap, Materialize, JQuery, JSON, Mocha, Chai

**Databases, data models, and other technology:** SQL (PostgreSQL), NoSQL (MongoDB w/ Mongoose), Postman, Jenkins, Docker, Amazon Web Services (AWS), RESTful Routing, HTTP, Full CRUD functionality, Git

**Interpersonal Skills:** Leadership, gratitude, mindfulness, meditation

## TECHNICAL PROJECTS

**THAT'S a Thing?? - [Video Demo](#) | [Deployed App](#) | [GitHub](#) | JavaScript | JQuery | JSON | AJAX | Words API**

A word game where users must decide if a provided word or phrase is based in reality or totally fabricated.

- Created a frontend application that makes AJAX calls to the Words API that retrieves random words from this database.
- Engineered two procedures that randomly scramble real English words into convincing fake English words.

**Setlystr - [Video Demo](#) | [Deployed App](#) | [GitHub](#) | Node.js | Express | MongoDB | Mongoose | JavaScript | JQuery**

A solution for musicians who need to quickly share their setlist with potential clients.

- Created a frontend application that uses the Express framework, persists data with MongoDB and makes 2 calculations.
- Later added DevOps workflow to the project, including a Docker image, Node.js test execution, and a Jenkins pipeline.

**Coffee-M8 - [Deployed App](#) | [GitHub](#) | Collaborative Group Project | MERN stack | Firebase | Bootstrap | Formik**

A solution for group ordering coffee for large-scale events.

- Acted as Frontend Lead and Branch Master for this collaborative group project that features four separate web pages.
- Created the frontend React application for our full-stack MERN application; separate frontend and backend deployments.

**First Glance - [Deployed App](#) | [GitHub](#) | Python | Django | PostgreSQL | Authentication | Materialize**

A game that challenges the user's ability to remember unfamiliar faces.

- Created a full-stack Django application that persists data with an SQL database and makes AJAX calls to the Generated Photos API.
- Added Django-supported authentication & protected routes, styled with Materialize.

## WORK EXPERIENCE

**Orchestral Percussionist - Self-Employed Entrepreneur**

**Boston, MA, 09/2018 - Present**

- Preparing repertoire, negotiating rates, and communicating logistical matters concerning percussion performances with clients.
- Drafting contracts, negotiating the rental, and facilitating delivery of orchestral percussion instruments to various artistic orgs.
- Performing with various orchestras and mixed-ensembles across the Greater Boston area, including the world-famous Streetlight Manifesto, the historic Park Street Church, Quincy Symphony, Symphony Pro Musica, and the Longwood Symphony.

**Swing Package Courier - FedEx Express | Full-Time | CDL Class B**

**Boston, MA, 10/2020 - Present**

- Delivering across the Metro Boston area 6 days per week, averaging 120 unique stops per day while consistently meeting deadlines.
- Driving Freightliner Step Vans, Mercedes Sprinter Vans, and Ford Transit Vans on narrow city streets with no at-fault collisions.
- Crafting a delivery stop order that best meets the needs of various daily service deadlines (8:00, 10:30, 12:00, 16:30, & 20:00).

**Web Application Developer - NYU (Internship) | Project Lead | New York Philharmonic**

**New York, NY 06/2017**

- Proposed and designed a front end application for the New York Philharmonic that utilizes the Able Player in conjunction with transcript metadata and virtually hosted PDF documents.
- Created documentation and led a team of New York Philharmonic archivists who actively added new content to my application.

## EDUCATION

**General Assembly, Software Engineering Immersive**

**Boston, MA, Certificate 11/2022**

Completed a 12-week online course that involves creating four frontend, backend, and full-stack applications. Learned about what is required for software development through code challenges and by engineering solutions to various problems that were presented.

**Boston University, Master of Music, Percussion Performance**

**Boston, MA 09/2018 - 05/2020**

**University of Michigan, Bachelor of Music, Percussion Performance**

**Ann Arbor, MI 09/2014 - 04/2018**

Completed coursework in computer science at the **University of Michigan**, including:

- **Programming and Introductory Data Structures** - container data structures, functional abstraction, recursion, linked lists, binary trees, developer tools, engineering, development, system, code review. **Languages: C++, C**
- **Elementary Programming Concepts** - control flow, algorithms (selective and iterative), object oriented programming (OOP), time complexity, space complexity **Languages: C++, Python**
- **Discrete Mathematics** - propositional and predicate logic, proof methods, big-O notation, set theory, functions, permutations and combinations.
- **Calculus I** - Introductory course - functions, graphs, derivatives and integration.