

# Joe Mecha

## Software Engineer

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github.com/joemecha

## PROJECTS

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### WHETHER, SWEATER

See detailed current weather as well as the forecast at the location and ETA of destination. Solo project built in 5 days; back-end exposes API for hypothetical Front End team's requirements

*Tech: Rails, data aggregation from multiple external APIs, CRUD functionality, authentication tokens*

 [github.com/joemecha/whether-sweater](https://github.com/joemecha/whether-sweater)  [joe-Mecha-whether-sweater.herokuapp.com/](https://joe-Mecha-whether-sweater.herokuapp.com/)

### DOWNDRAFT

App that makes beer recommendations based on the forecast and elevation at the user's destination. Built over 14 days with Service-Oriented Architecture. App features a Back End and Front End applications, API consumption/exposure, and OAuth.

*Tech: Rails, ActiveRecord, PostgreSQL, JSON, OAuth, CSS/Bootstrap, Travis CI, Heroku*

 [github.com/Down-Draft](https://github.com/Down-Draft)  [down-draft.herokuapp.com/](https://down-draft.herokuapp.com/)

### VIEWING PARTY

Application to explore movies and create viewing parties for user and their friends. The application features basic authentication, self-referential database relationship, Continuous Integration.

*Tech: Rails, Faraday, Figaro, WebMock, VCR, PostgreSQL, JSON, Travis CI, Heroku*

 [github.com/joemecha/viewing\\_party](https://github.com/joemecha/viewing_party)  [joe-mecha-viewing-party.herokuapp.com](https://joe-mecha-viewing-party.herokuapp.com)

### LITTLE ESTY SHOP

A fictitious e-commerce platform with admin and merchant user roles, CRUD functionality, SQL/ActiveRecord to perform complex queries, and consumes a public API to display public holidays.

*Tech: Rails, ActiveRecord, PostgreSQL, Rake, JSON*

 [github.com/joemecha/little-esty-shop](https://github.com/joemecha/little-esty-shop)  [esty-shop-bulk-discounts.herokuapp.com](https://esty-shop-bulk-discounts.herokuapp.com)

## EXPERIENCE

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**Back End Engineering Student**  
2021 to Current

### TURING SCHOOL OF SOFTWARE & DESIGN

- 1200+ hours of programming experience in accredited, 7-month immersive program
- 12 projects, develop with Test-driven design and Agile workflow
- Design relational databases and build Rails APIs
- Practice OOP to build maintainable database-backed web applications

**Lecturer and Youth Programs Coordinator**  
2017 to 2020

### UNIVERSITY OF COLORADO BOULDER

- Taught students from over 50 countries in Intensive English and special programs
- Led as Academic Coordinator of EducationUSA Academy, a US State Department-sponsored pre-college program for international high school students, developed curriculum, mentored students, supervised staff
- Served as Communications Faculty and Advisor in Journey to Mars aerospace and space science program

**English Teacher**  
2010 to 2016

### PUBLIC HIGH SCHOOLS, JAPAN

- Collaborated with an international team to provide students a safe, inclusive environment to develop English language communication skills and intercultural understanding
- Increased elective course enrollment five-fold by implementing student-centered instruction
- Conducted, presented, and published classroom-based research

## SKILLS

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### TECHNOLOGIES

- Ruby
- Rails
- SQL
- ActiveRecord
- RSpec
- REST API
- JSON
- HTML
- CSS
- Git/GitHub
- TravisCI
- Heroku

### PRACTICES

- Project Management
- Test Driven Development (TDD)
- Unit Testing
- Continuous Integration
- Git Version Control
- Agile Workflow
- Remote Work

## EDUCATION

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**University of Massachusetts - Boston**

- MA, Applied Linguistics
- Foreign Language Pedagogy

**University of Wisconsin - Whitewater**

- BSEd, Elem. Education
- English as a Second Language

**University of Wisconsin - Madison**

- BS, Conservation Biology
- Environmental Studies

## CERTIFICATIONS

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- Professional Teaching License
- Japanese Language Proficiency Test N2 (second-highest rank)