

Joe Mecha

Software Engineer


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PROJECTS

WALK SAFE

Empowering individuals to walk alone, uses geolocation and SMS messaging APIs to inform a user's contact of their trip status from start to finish. Back-end of a full-stack app; exposes API with GraphQL, consumes Google Maps and Twilio APIs. CI/CD including 'staging' deployment providing development environment for Front End team.


Tech: Rails, PostgreSQL, GraphQL, JSON, Travis CI, Heroku

 github.com/Walk-Safe/walk-safe-backend  walk-safe-frontend.herokuapp.com

WHETHER, SWEATER

Rails back-end exposes API for a Front End team's requirements. Aggregates detailed data on current weather, forecast for the location, and ETA of destination. Solo project built in 5 days;


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

 github.com/joemecha/whether-sweater  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 Rails 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  down-draft.herokuapp.com/

VIEWING PARTY

Application to explore movies and create viewing parties for user and their friends. Features basic authentication, self-referential database relationship, and continuous integration.

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

 github.com/joemecha/viewing_party  joe-mecha-viewing-party.herokuapp.com

EXPERIENCE

Back End Engineering

2021 to 2021

TURING SCHOOL OF SOFTWARE & DESIGN

- Earn 1600+ hours of programming experience in accredited, 7-month immersive program
- Develop 13 projects 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

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

Turing School of Software & Design

- Certificate, Back End Engineering

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

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