ALEX DESJARDINS

Software Engineer & Surgical Neurophysiologist

(305) 877-3884 | ardesjardins91@gmail.com | in. Linkedin | ⊙ Github

Technical Skills

Proficient: Ruby, Rails, ActiveRecord, PostgreSQL, Minitest, Rspec, Capybara, HTML

Familiar: GraphQL

Practices: Test Driven Development, Pair Programming, Kanban Development, ReSTful Design, Git/Version control

Projects

Sweater Weather API | Github | Production

- Creation of REST API to aggregate data for weather forecast, images, and routing as well as providing CRUD functionality for users.
- Solo greenfield project that utilize openweather, mapquest, and pexel API's
- *Tech Stack:* Ruby on Rails, RSpec, Capybara, PostgreSQL, Heroku
- All tests passing with 99.5% coverage

Saturn'd Earth | Github | Production

- Creation of REST API for the frontend team utilizing backend geolocation features and GraphQL.
- Group greenfield project with a 6-person frontend and backend team.
- Tech Stack: Ruby on Rails, RSpec, Capybara, PostgreSQL, Heroku, GraphQL
- All tests passing with 96.5% coverage

Education

Backend Software Engineering	*Turing School of Software and Design*	03/2020 - 01/2021
B.Sc Biological Health Science	*University of South Florida*	08/2011 - 07/2015

Professional Experience

Senior Surgical Neurophysiologist; CNIM   11/2018 - 03/2020
Assure Neuromonitoring - National Technologist

- Part of a two-member team tasked with establishing advanced neuromonitoring procedures during brain tumor removal surgeries with Culicchia Neurological Clinic in New Orleans.
- Personally trained 6 surgical neurophysiologists at hospitals nationwide for neuromonitoring protocols for various advanced procedures.
- Fluent neuromonitoring capabilities in EEG, ECoG, EMG, SSEP, TCMEP, ABR, CN neuromonitoring during surgeries.

Surgical Neurophysiologist; CNIM   08/2016 - 10/2018
Nuvasive Clinical Services - Mayo Clinic - Team Lead

- Lead surgical neurophysiologist for various complex neuromonitoring procedures including brain aneurysm surgeries, complex multilevel spine surgeries, patient-asleep and patient-awake brain tumor removal surgeries.
- Worked with Chief of Neurosurgery; Dr. Quinones and his neurosurgery team to provide cortical mapping and EEG neuromonitoring during patient-awake brain tumor removal surgeries.
- Implemented a training regimen for associate-level surgical neurophysiologists to transition into more advanced brain surgeries and vascular surgeries.