

ALEX DESJARDINS

Software Engineer & Surgical Neurophysiologist

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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
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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.