Bryan Fowler

Software Engineer

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EXPERIENCE

Computer & Software Engineer
Pratt & Whitney, January 2016 - November 2017

- Lead software engineer for control system design and safety analysis of a performance optimization system for five commercial jet engines programs
- Created mathematical models of mechanical systems using the Modelica programming language, utilizing skills in object oriented design, fluid dynamics, thermodynamics and heat transfer
- Designed data structure parsing algorithm to convert Matlab models into XML for increased efficiency across organizations within the company
- Developed methods and tools for automation of control system safety analysis using Matlab, reducing analysis time by 75%
- Scripted and executed software tests on commercial jet engine computer systems using C and a Pratt & Whitney created UX based programming language

EDUCATION

App Academy
November 2017 - January 2018
1000-hour immersive, hands-on full-stack web development course with <3% acceptance rate

University of Connecticut
September 2011 - December 2015
B.S. Mechanical Engineering - GPA 3.6/4.0

PORTFOLIO

Seaside
http://seaside.bryanfowler.io
https://github.com/cbfowler4/seaside
AirBnB inspired single page application utilizing Ruby on Rails, React and Redux for boat rentals

- Utilized React to create dynamic DOM elements and modular code, enhancing speed and improving user experience
- Normalized front-end state for efficient management of data throughout the CRUD process
- Google Maps API and ActiveRecord database querying integrated to provide item filtering on location, price and number of guests

GitBuckets
http://bryanfowler.io/gitBuckets/
https://github.com/cbfowler4/gitBuckets
NBA Standings data visualization using JavaScript and D3

- Developed interactive and responsive representation of team standings using D3 library
- Created Express server to make AJAX requests to undocumented API end points to populate data used in visualization

EXPERTISE

JavaScript, Python, C, Ruby,Solidity, HTML5, CSS, Node.js, Express, Rails, React, Redux, PostgreSQL, MongoDB, Git, RSpec, Matlab