



Daniel E. Madrid

Software Engineer

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Tech

Front-end Frameworks

React, Next.js, Angular, AngularJS

Backend

Maven, Springboot, NodeJS, ExpressJS, KoaJS

Languages

Javascript, Golang, Python, Java

Data Systems

Neo4J, SQL, Cassandra, MongoDB

Skills

Kubernetes, Docker Containerization, Kafka, Shell Scripting

Experience

Optum Technology
(UnitedHealth Group)

Senior Software Engineer (Full Stack)

July 2021 – Present

- Next.js web applications with PingFederate and GitHub authentication
- Webpack module federation
- Mongo scripting for data migration

Software Engineer (Platform)

July 2020 – July 2021

- Built out features for platform centered around canonicalization of relational data
- Updated Cassandra data models for improved partitioning
- Containerized command line tools for platform agnostic distribution
- Developed POSIX compliant scripts to improve efficiency
- Managed versioning through CI/CD pipeline

Associate Software Engineer (Full Stack)

June 2019 – July 2020

- JWT user authentication with session storage and RBAC route guards
- Introduced modularity to application suite
- Improved reusability of code through UI best practices
- RESTful APIs, adhering to HL7's FHIR specifications
- Managed deployments to environments via Jenkins pipeline

Software Engineering Intern (Front-end)

Summer 2018

- Client facing IoT application that integrated with various IoT devices
- Coded provider facing web-based application in ReactJS
- Developed APIs that communicated information between applications

BuildInMotion

Software Engineering Intern (Front-end)

Summer 2016, Summer 2017

Developed Angular2 application as part of platform driving real-time interactions

Projects

CyFHIR

Published to Optum Opensource

April 2020

A Neo4j plugin that delivers meaningful graph database representations of models described by FHIR, a healthcare interoperability standard

Education

Cornell University

B.S. Operations Research and Information Engineering

May 2019

Minors in Business and Information Science