



Daniel E. Madrid

Software Engineer

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Tech

Languages	Frontend	Backend	Databases	Tools
Javascript/Typescript Python Golang Java	Angular2+ AngularJS RxJS	Maven SpringBoot	Neo4J SQL	Flyway Scripts

Experience

Optum Technology (UnitedHealth Group)
Platform Software Engineer

July 2020

Associate Software Engineer

June 2019 – July 2020

Developed web-based application with suite of Canonical APIs, interfaced APIs with suite of DAL Apis

Skills: Angular, Typescript, RxJS, Jest, Java, Maven, SpringBoot, Hystrix

- Implemented JWT user authentication with session storage and route guards regulated by user roles and privileges
- Implemented RESTful APIs, adhering to HL7's FHIR specifications

Developed EHR-integrated application that grants practitioners access to UnitedHealth Group's RESTful APIs.

Skills: Angular, Typescript, RxJS, Jasmine, Java, Maven

- Introduced modularity to application suite
- Improved reusability of code through UI best practices
- Implemented RESTful APIs, adhering to HL7's FHIR specifications
- Managed deployments to environments via Jenkins pipeline

Software Engineering Intern

Summer 2018

Developed full-stack platform, focused on delivering IoT data to practitioners

- Coded client facing iOS 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

Summer 2016, Summer 2017

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

Side Projects

CyFHIR

This Neo4j plugin serves to deliver meaningful graph database representations of models described by FHIR, a healthcare interoperability standard. CyFHIR was published to Optum's public open source community in April 2020

Skills: Java, Maven, ExpressJS, NodeJS, Typescript, Neo4j

Education

Cornell University

B.S. Operations Research and Information Engineering
Minors in Business and Information Science

May 2019