

CARLTON J. DUFFETT

Developer | Architect | Engineer

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TECHNICAL SKILLS

Languages

Go, Python, Ruby, Java,
JavaScript, C/C++, JSON

Frameworks

REST, Django, React,
Angular, Node

Platforms & Tools

AWS, Docker, Travis,
Twilio, Git, SVN

Databases

MongoDB, Postgres,
Redis, Caché

EXPERIENCE

SOFTWARE ENGINEER

The MITRE Corporation | Bedford, MA | August 2016 - Present

Responsible for designing and implementing innovative software projects as part of a small, agile team. I primarily contribute to open-source healthcare projects and new innovations in the health IT space.

RECENT PROJECTS

PTMERGE

github.com/mitre/ptmerge | February - March 2017

A service for merging two matching patient records into one, comprehensive record. Designed the overall system architecture and merging strategy. Implemented the RESTful API and the mechanism for resolving merge conflicts.

SYNTHEA

github.com/synthetichealth/synthea | November 2016 - Present

An open-source synthetic patient population simulator. Authored numerous modules that probabilistically model diseases, injuries, and patient care. Architected major components of the simulation infrastructure.

GOFHIR

github.com/intervention-engine/fhir | August 2016 - Present

A generic, open-source FHIR server implemented in Go that serves patient records and associated healthcare data. Developed advanced search features and optimized database operations to perform with millions of patients.

TRAINING AND CERTIFICATIONS

Cloud Computing Learning Path | January - June 2017

A 6-month, comprehensive introduction to cloud computing taught at the MITRE Institute. Includes comprehensive training in Amazon Web Services, cloud architecture, cloud security, and cutting-edge cloud technologies.

DoD Secret Security Clearance

Active since October, 2016

EDUCATION

B.S. COMPUTER ENGINEERING

Boston University | Boston, MA | September 2012 - May 2016

Concentration in Technology Innovation
GPA 3.89/4.0, Magna Cum Laude