

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

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.

STORK

github.com/cjduffett/stork | March - June 2017

Stork deploys many, parallel Synthea instances on AWS EC2 and S3. Stork dramatically increases throughput and generates millions of patient records per day. This is my capstone project for my Cloud Computing Learning Path.

SCORING-LAMBDA

April 2017 - Present

A scalable AWS microservice for scoring a Patient Matching Challenge and maintaining real-time challenge results. Leverages AWS API Gateway, DynamoDB, and Lambda. I reworked the original prototype to perform well at scale.

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