

Ryan Sivek

See my personal website and interactive resume at <https://www.ryansivek.com>

About Me

Hi I'm Ryan! I'm a multipotential, highly self-motivated Software Engineer with experience in Cloud Infrastructure (AWS), Full Stack Development, Web Applications, API Design, Machine Learning, and Modeling & Simulation. I also have experience with biomedical applications and embedded systems. My role leading small development teams to successful deployments using Scrum/Agile methodologies has been remarkably rewarding.

I've had the opportunity to work with a wide breadth of technologies, systems and software with wonderfully diverse people from all walks of life. My work has given me a tremendous breadth of versatile skills and has exercised my ability to adapt quickly to fluctuating work environments. I consider myself an effective communicator and highly adaptable team player with a fierce passion for solving real-world problems.

Skills

AWS	Airflow	C#	C++	CI/CD	Docker	Git
Gradle	GraphQL	Java	JavaScript	Kubernetes	Microservices	ML
M&S	MongoDB	MySQL	NLP	PHP	Postgres	Python
SBML	SVN	Snowflake	Terraform	UX/UI	Web Apps	WebGL

Framework / Library Experience

jQuery	Angular	Express	D3.js	Vue.js	Browserify	Primus
Webpack	Mocha	Maven	Gradle	Hibernate	Karaf	FHIR
Guava	SBSCl	Django	Flask	Boost	Ascent	Catch2

Professional Experience

Marqeta

2020 - Present

Senior Software Engineer

2020 - Present

- Leading Development of an improved, scalable, serverless infrastructure for Marqeta's customer facing data reporting/analytics API.
- Developed an internal API for secure encryption/decryption of row data for use as a Snowflake External Function.
- Developed new infrastructure to allow migration of critical bank report infrastructure from on-prem servers to the AWS cloud.
- Developed infrastructure in Terraform targeting AWS for application-level proxy servers providing secure connectivity to internal services. Set up monitoring and alerting with DataDog integrations for continual maintenance.
- Developed an ETL pipeline which parses encrypted transactional data stored in AWS and securely pushes the data into Snowflake for downstream consumption by authorized users.

The MITRE Corporation

2012 - 2020

Senior Software Engineer

2016 - Present

Software Engineer

2013 - 2016

Technical Intern

2012 - 2013

- Lead a small team in development of a web application which provides a dashboard for data discovery.
- Developed a reusable front-end library for data discovery and visualization.
- Developed a subsystem for efficient physiology simulation for the open source Synthea project. The system uses models defined in SBML with SBSCl to execute simulations. Results are transformed for compatibility with the FHIR standard.
- Developed essential components of a web application for monitoring simulated entities on a world map and for providing After Action Review capabilities in the JLCCTC Insight Suite.
- Designed and developed a software architecture and RESTful API for ad-hoc distributed computing using web browsers.

Education

UNIVERSITY OF VIRGINIA (UVA)

Charlottesville, VA

ME Biomedical Engineering

Aug 2018

UNIVERSITY OF CENTRAL FLORIDA (UCF)

Orlando, FL

BS Computer Engineering

Minor Psychology

May 2014

Ryan Sivek

Awards & Recognition

2020 - Trailblazer Award - Foundational Intelligence Modernization Natural Language Processing Team
2019 - Trailblazer Award - Perspective Team
2018 - Spark Award - Partner Engagement Suite
2017 - Program Recognition Award (PRA) - The MITRE Challenge: Countering Unauthorized Unmanned Aircraft Systems
2017 - Spot Award - Operationalizing Mission Capability
2016 - Department Manager Award - JLCCTC Insight
2016 - Director Award - MITRE Countering Unmanned Aircraft Systems (C-UAS) Challenge
2015 - PEO-STRI Letter of Appreciation - Squad Overmatch Study
2015 - Program Recognition Award of Distinction (PRA) - Squad Overmatch Study
2014 - Army Modeling & Simulation Award - Squad Overmatch Study
2014 - Director Award - Squad Overmatch Demonstration
2014 - PEO-STRI Certificate of Appreciation - Squad Overmatch Study
2013 - Director Award - FY 13 Squad Overmatch Study
2013 - Spot Award - Mission Command Simulation Capability
2012 - Spot Award - Raytheon's RTI NG Pro Version 7.0 Software
2006 - Eagle Scout Award

Clearances & Certifications

CompTIA Linux+ (Verification Code: 74XK0RRGXLFQZ3E)

Verify at <http://verify.CompTIA.org>

Volunteer Experience

Boy Scouts of America

Webelos Den Leader (Oct 2014 - Aug 2015)
Wolf Den Leader (May 2010 - Jun 2011)
Eagle Scout (2006)

Charlottesville, VA
Viera, FL

The Church of Jesus Christ of Latter Day Saints

Full Time Missionary (Sept 2007 - Sept 2009)

Fiji

References available upon request