

Keith Richards

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Work Experience

Software Developer

RTI International (Jan 2017 to Present)

- Serve as principal engineer on diabetes modeling platform written in Python, consisting of population generation, microsimulation, and statistical analysis components, and managed by a central orchestration module. Manage application development using Agile methodologies to ensure stakeholder satisfaction. Developed continuous integration strategies ensuring code quality by running unit tests and enforcing PEP8 standard.
- Successfully converted a set of legacy, standalone Twitter analysis tools into a cohesive set of reusable microservices using Docker and AWS Elastic Container Service.
- Lead front end development of SaaS analytics platform using Vue by mentoring colleagues on best practices, configuring lint rules, and establishing unit testing.
- Contribute to data science projects and applications by providing expertise in full-stack software engineering best practices, ranging from creating and consuming RESTful APIs using Django and React to orchestrating deployments using Ansible.

Web Applications Developer

Dakno Marketing (April 2015 to Jan 2017)

- Led front end development of a SaaS real estate search application from UX prototype to deployment. Written in React, connecting to a legacy PHP API.
- Maintained over 50 databases containing regional real estate listings. Aggregated data from real estate boards using custom Python framework. Developed automation to speed up the onboarding of new regional databases from 10 days to 3.

Cryptologic Linguist

United States Marine Corps (May 2010 to May 2015)

- Oversaw the day to day activities of subordinate Marines in a highly dynamic environment. Instructed courses on Signals Intelligence operations in classified and unclassified environments.
- Led periodic inventories and routine maintenance of over \$4M in classified equipment, in accordance with Department of Defense and Marine Corps regulation.

Education

Bachelor of Science - Information Technology (Software Development)

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Western Governors University (Anticipated 2018)