

# Keith Richards

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## Work Experience

### Software Engineer

#### **TransLoc** (June 2019 to Present)

- Efficiently calculate optimal routing and scheduling for on-demand bussing and microtransit. Address NP-Hard "Travelling Salesman Problem" via Simulated Annealing using Go.
- Investigate, triage and resolve systems issues that extend beyond the scope of individual product teams.

### Software Developer

#### **RTI International** (Jan 2017 to May 2019)

- Served as principal software engineer on health economics platform written in Python, simulating the effects of medical interventions on persons with diabetes. Translated statistical models into modular components.
- Contributed software engineering expertise to various projects and applications. Advised on software architecture, Agile project management, creating and consuming RESTful APIs using Python and JavaScript, and DevOps using Docker. Coordinated monthly software engineering training program.

### Web Applications Developer

#### **Dakno Marketing** (April 2015 to Jan 2017)

- Led front end development of a SaaS real estate search application written in React from UX prototype to application deployment. Modified legacy PHP codebase to add and adapt API endpoints to meet application needs.
- Created processes and tools in Python to simplify aggregation of data from regional real estate boards, reducing on-boarding time 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.
- Led periodic inventories and routine maintenance of over \$4M in classified equipment, in accordance with Department of Defense and Marine Corps regulation.

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## Education

### Masters of Business Administration (Information Technology Management)

#### **Western Governors University** (2019)

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Bachelor of Science - Information Technology (Software Development)  
**Western Governors University** (2018)