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| EXPERIENCE | ION Geophysical <i>Senior Software Engineer</i> <i>Software Engineer</i> | June 2020 - Present August 2017 - June 2020 |
| | DevOps & Cloud I apply Agile & DevOps principles to coordinate with other teams, improve our flow of work, and share knowledge. I used Ansible, Docker, and Python to automate repeatable test environments on-premises and in public clouds such as AWS. | |
| | Functional Programming & Graphs I created a ReactJS webapp to visualize and traverse geophysical processing history graphs, revealing valuable cost-saving insights about wasteful processing patterns. I designed & implemented an Erlang service to gather history from both RabbitMQ & CouchDB in real time, and store it in a Neo4j graph database. | |
| | Sharing Knowledge I also designed an Erlang service to manage expiration dates for dataset files on disk based on complex parameters, enabling cost-saving disk usage quotas. I taught another team of developers Erlang so they could join the project, and I perform code reviews of their contributions. | |
| | EDUCATION | |
| | The University of Texas at Austin <i>Bachelor of Science & Arts, Mathematics</i> <i>Minor, Chinese Language</i> University Honors Spring 2015, 2016, 2017, Fall 2015, 2016 | August 2014 - May 2017 GPA: 3.7 GPA: 4.0 |
| SIDE PROJECTS | Showcase A showcase of some of my side projects, and my personal blog. Written in Clojure with Ring & Compojure, deployed on Heroku. 7GUIs – Spreadsheet WebApp Seven example GUIs including a functional spreadsheet webapp. Written in ClojureScript & Reagent. Live demos are hosted on AWS S3 & CloudFront. Each GitHub repo links to its demo. | robertm.io |
| TECHNICAL SKILLS | Languages Fluent: Clojure & ClojureScript, JavaScript, Erlang Proficient: Python, Java Web Frameworks Fluent: Reagent, React Proficient: Re-Frame, Express, Node Cloud & DevOps Ansible, AWS, Docker, Kubernetes, Jenkins, Git | |