

# Isaac Karrer

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## EDUCATION

### GEORGIA TECH

#### MASTERS OF SCIENCE, COMPUTER SCIENCE

Attended Aug 2016 - May 2018  
15 hours completed

### TEXAS STATE UNIVERSITY

#### BS IN COMPUTER SCIENCE

May 2014 | San Marcos, Tx  
Major GPA: 3.8  
Math Minor  
College of Engineering  
Dean's List (Fall 13, Spring 14)

### COURSEWORK

Software Test and Analysis  
High Performance Computer Arch  
Computer Security  
Data Mining  
Data Compression  
Networks  
Data Structures  
Object Oriented Design

### LBJ LASA

Liberal Arts & Science Academy  
Grad. May 2005 | Austin, Tx

## SKILLS

### PROGRAMMING

#### Frameworks

scalatest • terraform • Selenium • Kitura

#### Proficient Languages

Scala • Java • Python • Bash

#### Familiar Languages

Golang • Ruby • C++ • MySQL

### DEPLOYMENT/CI

Buildkite • Jenkins  
Gradle • Docker • Vagrant

### CLOUD SERVICES

elasticsearch • AWS • GCP • Azure  
IBM Softlayer • Oracle CRM DB

## RELATED INTERESTS

- Scuba Diving
- DIY Home and Car Maintenance
- R/C Cars, Planes, and Quadcopters

## EXPERIENCE

### ELASTICSEARCH | Principal Software Engineer

April 2018 - Current | Remote

- Automation of OS and OS Package updates.
- Upgraded from 0.11.15 terraform to latest for ephemeral test environments.
- Extend golang test framework for deployment configuration DSL to test interface between config DSL and deployment CLI.
- Upgrade Wiremock based integration test environment to use Prism.
- Mentored others on test pipeline implementation on Buildkite.
- Led migration of all cloud test pipelines from Jenkins to Buildkite. Reduced LoC and complexity of pipelines by 10x without losing feature parity.
- Implemented Release Exit Check quality gate to assert the health of the public cloud as we released across providers and their regions. Suite expansion by teams via java annotation.
- cloud-sdk-java for consuming Elasticsearch Service in java projects.
- Implemented patterns for initializing swagger api controllers as the desired persona and authentication strategy in the scalatest framework.
- Implemented key primitives in the scalatest framework to facilitate migrating system tests from the old ClustersApi to the new DeploymentsApi. Teams quickly completed the migration when the ClustersApi was EOL.
- Worked the customer facing support queue as a platform admin to debug, triage, and remediate broken elasticsearch deployments.

### JAMF | Software Engineer II

October 2015 - March 2018 | Eau Claire, WI

- Key contributor to new system testing framework.
- Implemented REST client for legacy Customer API using Spring and JaxB
- Led team of 5 others to automate existing manual regression suite.
- Automated reporting of Test Results into TestRail using Python.
- Implemented component tagging scheme to ensure that every test could be expedited to a development team for triage when failures occurred.
- Led intern project to expose the MacOS Accessibility API via a Swift REST server so that we could control applications on the screen in a VNC session.
- Implemented Client Reservation Server using Spring Boot, Docker, and Gradle. Used MySQL, H2, and Swagger Code Gen. Service had 99.99% availability.

### IBM | Cloud Infrastructure Services - Software Engineer

May 2014 - June 2015 | Austin, TX

- Deployed OpenStack Object Storage using Chef
- Wrote an automated capacity manager using Python for OpenStack Swift
- Automated Ring building for OpenStack Swift using Chef

### SAN FRANCISCO CONSULTING GROUP

Software Engineering Intern

May 2013 - Sept 2013 | Austin, TX

- Wrote PHP and jQuery to perform custom CRUD operations

### CITY OF AUSTIN PARKS AND RECREATION PARKS DIVISION

Supervisor, Manager, Maintenance, Lifeguard Instructor

May 2004 - Aug 2012 | Austin, TX

- 9 years management, leadership, and teaching experience
- Managed and trained 70+ ARC Lifeguards across 6 sites