

# Robert Pierce

SOFTWARE ENGINEER

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## Skills

Clojure	Go	Elasticsearch	Docker	AWS	Jenkins	Javascript
Microservices		Distributed Systems	Functional Programming		Full Stack	

## Experience

### Rentpath

SOFTWARE ENGINEER

Atlanta, Georgia

April 2018 - Present

- Develop and maintain Clojure backend services that support high volume websites used for searching rental real estate markets
- Utilize Clojure and Elasticsearch to provide various searching and sorting algorithms for apartmentguide.com
- Migrated from a legacy search provider to Elasticsearch
- Worked on creating, publishing, and validating SEO sitemap data for apartmentguide.com and rent.com

### CareerBuilder

SOFTWARE ENGINEER I

Norcross, Georgia

June 2016 - March 2018

- Develop and maintain an ecosystem of microservices using Go, Clojure, Docker, CircleCI, AWS, and CoreOS
- Develop and support a monolithic applicant tracking product using PHP, and Javascript
- Build tooling for internal customers using Clojure, Go, Javascript, and Elm
- Work closely with all the technology interns at the company as the intern ambassador

### CareerBuilder

SOFTWARE ENGINEERING INTERN

Norcross, Georgia

January 2016 - April 2016

- Automated the team build process using Docker, CircleCI, Quay.io, and CoreOS
- Integrated metrics using StatsD and Datadog into microservices using Go
- Developed a microservice using Clojure to aid in parsing of resumes

### Georgia Institute of Technology

TEACHING ASSISTANT

Atlanta, Georgia

May 2015 - December 2015

- Taught and planned recitations for about 50 students on a weekly basis
- Graded proofs for a Cryptography and Number Theory class

### The Brand Banking Company

BANKING OFFICER

Lawrenceville, Georgia

June 2006 - January 2008

- Underwrote and presented loans for VIP customers to the bank's credit approval board

## Education

### Georgia Institute of Technology

COMPUTER SCIENCE

Atlanta, Georgia

August 2014 - December 2016

- GPA: 3.8

### University of South Carolina

MA IN ECONOMICS

Columbia, South Carolina

August 2008 - December 2012

- Thesis: *Long-Term Effects of Birth Related Leave on Academic Achievement*

### Georgia Southern University

BBA IN FINANCE

Statesboro, Georgia

August 2002 - May 2006

- Honors: *cum laude*

## Search and Sort Testing

RENTPATH - SERVICES TEAM

- Implemented various versions of search and sort logic for many common search requests
- Search versions were presented to test subjects in experiments to help determine the best version
- Examples include logic for searching low and high inventory cities, neighborhoods, and sorting via price bucket

## Elasticsearch Conversion

RENTPATH - SERVICES TEAM

- Helped convert the primary search provider for apartmentguide.com from Endeca to Elasticsearch
- Sole developer responsible for converting the ratings and reviews API search provider for apartmentguide.com from Endeca to Elasticsearch
- Converted several SEO sitemap workflows from Endeca to Elastic

## Saved Search Notifications

RENTPATH - SERVICES TEAM

- Built a workflow to implement notifications on saved searches for apartmentguide.com
- Workflow consumed saved search diffs and then alerted users of the significant changes in their saved search results

## Indeed Integration

CAREERBUILDER - CANDIDATES TEAM

- Built an XML feed to be consumed by indeed.com that publishes every active job for a given instance of the applicant tracking product
- Built the frontend additions to the applicant tracking service to give customers the option of publishing their jobs the Indeed Feed
- Worked with another developer to build the backend service in Go that consumes candidate applications from indeed.com, parses their resumes, and uploads the candidate to the appropriate job within the applicant tracking product

## TSR Health Check Service

CAREERBUILDER - CANDIDATES TEAM

- Designed and constructed a microservice in Go that checks the health of over 600 instances of CareerBuilder's Applicant Tracking product
- The service queries all systems every 10 minutes and is used by several internal customers
- The service alerts and pages, when appropriate, whenever a system fails a health inspection

## TSR User Service

CAREERBUILDER - CANDIDATES TEAM

- One of three team members to design and build a microservice in Go to implement single sign on for CareerBuilder's Applicant Tracking product
- The service allows users of an applicant tracking product to login via CareerBuilder's homepage
- The service has a frontend developed in Elm and PHP that is used by internal customers and end users for troubleshooting

## Luceo Jobs

CAREERBUILDER - TSR COMBINED TEAM

- Helped develop a Node application that integrates posting of jobs across all of CareerBuilder's applicant tracking instances.
- The app utilizes a hapi.js framework along with Bluebird library for promises

## Bucket Keeper Microservice

CAREERBUILDER - CANDIDATES TEAM

- Developed a microservice in Clojure that retrieves resumes from AWS, decompresses them, and forwards them to a parsing service
- The service handles approximately 200,000 requests a day with intermittent large spikes in volume
- The service has had zero downtime due to performance issues

## Automated Build Process

CAREERBUILDER - CANDIDATES TEAM

- Used the CircleCI integration tool to automate the team's manual build and deployment process
- Currently supports the team's Go and Clojure microservices

## Elliptic Curve Cryptography Tutorial

NUMBER THEORY AND CRYPTOGRAPHY

- Wrote and Produced a YouTube video explaining the theory behind the Elliptic Curve Diffie-Hellman Algorithm
- One of the most popular videos covering the subject on YouTube with almost 80,000 views
- <https://youtu.be/F3zzNa42-tQ>

## DRUMMING

- Have been playing drums for over 20 years
- Currently play a hybrid Pearl Master's kit with mesh heads and Roland TD-50 electronics and triggers

## HIKING AND MOUNTAINEERING

- Have hiked almost 250 miles of the Appalachian Trail, from the southern terminus at Springer Mountain Georgia to the northern boundary of Great Smoky Mountains National Park in North Carolina
- Try to complete 100 miles a year on the Appalachian Trail towards the northern terminus in Maine
- Have completed several hikes in Colorado with 12,000 plus foot summits
- Interested in attempting more technical climbs with summits over 14,000 feet

## OPEN WATER SAILING

- Currently learning to sail open water sailboats