

Robert Pierce

SOFTWARE ENGINEER

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Skills

Go	Clojure	Javascript	Elm	PHP	Redis
Microservices		Distributed Systems	Functional Programming		Full Stack

Experience

CareerBuilder

SOFTWARE ENGINEER I

[Norcross, Georgia](#)

June 2016 - Present

- 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, Javascript, Redis, and CSS
- 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

BS IN 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*

Projects

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

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 Video

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 70,000 views