Robert **Pierce**

SOFTWARE ENGINEER

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Experience

CareerBuilder   *Norcross, Georgia*

SOFTWARE ENGINEERING INTERN   *January. 2016 - April 2016*

- Automated the team build process using CircleCI
- Implemented metrics using statsd and Datadog into a dozen micro-services written in Go
- Constructed a micro-service written in Clojure to retrieve documents from AWS S3

Georgia Institute of Technology   *Atlanta, Georgia*

TEACHING ASSISTANT   *May 2015 - December 2015*

- Taught and planned recitations of about 50 students on a weekly basis
- My recitation achieved test scores approximately 2 points above the class average on every test

Huntington Learning Center   *Dunwoody, Georgia*

TUTOR   *April 2012 - September 2016*

- Helped prepare over 80 students for the SAT and ACT through one-on-one sessions
- Responsible for all tutor-student interactions including lesson plans, teaching, and motivating frustrated students

The Brand Banking Company   *Lawrenceville, Georgia*

BANKING OFFICER   *June 2006 - January 2008*

- Underwrote loans for large real estate and commercial deal totalling more than $75 million
- Presented loans to the bank loan committee for approval
- Worked in a group to develop a strategic plan for future branch locations of which 2 were developed into retail branches

Education

Georgia Institute of Technology   *Atlanta, Georgia*

BS IN COMPUTER SCIENCE   *August 2014 - PRESENT*

- GPA: 4.0

University of South Carolina   *Columbia, South Carolina*

MA IN ECONOMICS   *August 2008 - December 2012*

- Thesis: *Long-Term Effects of Birth Related Leave*

Georgia Southern University   *Statesboro, Georgia*

BBA IN FINANCE   *August 2002 - May 2006*

- Honors: *cum laude*

Projects

Bucket Keeper Micro-service

TSR CANDIDATE TEAM - CAREERBUILDER

- Designed and constructed a micro-service application in Clojure that accepts http request for documents stored in AWS S3
- The service retrieves the requested document and returns it in base64 encoded format
- Developed unit tests for every function in the app
- This service has been deployed to the production CoreOS cluster
- It is currently assisting an applicant tracking system used by recruiters working for hundreds of business clients throughout the United States and Europe

Automated Build Process

TSR CANDIDATE TEAM - CAREERBUILDER

- The team build process was mostly manual
- Used the CircleCI integration tool to automate the process
- When a push occurs linting and tests are run automatically
- When a merge to master occurs the application is packaged into a container using Docker
- The container is then deployed to Quay.io

MULE

- Team project to recreate the 1983 Atari game simulating supply and demand economics.
- My role was to take ideas generated by the group and turn them into working Java code

Dueling Tanks

ECE 2035

- Class project to develop a dueling tank game using ARM's MBED micro-controller, a breadboard, accelerometers, and a micro LCD screen
- The project was developed in C++
- the multi-player mode connected two devices via Ethernet

Elliptic Curve Cryptography Video

Number Theory and Cryptography

- Wrote and Produced a YouTube video explaining the theory behind the Elliptic Curve Diffie-Hellman Algorithm
- The video is one of the most popular videos covering the subject on YouTube with almost 25,000 views