Stephen Robicheaux

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EDUCATION

SAM HOUSTON STATE UNIVERSITY
B.S. Mathematics
Minor in Computer Science
College of Science and Engineering Tech
Grad: May 2018 | Huntsville, TX
Major GPA: 3.39 / 4.0
Minor GPA: 3.25 / 4.0

LINKS

Github: **github.com/stephenrobic**
LinkedIn: **linkedin.com/in/stephenrobicheaux**

COURSEWORK

UNDERGRADUATE

- Prog Fundamentals I & II (in Java)
- Computer Org. & Machine Language
- Introduction to Python
- Computer Architecture
- Database Management Systems
- Data Structures and Algorithms
- Linear Algebra and Matrices
- Algebraic Structures
- Theory/App of Prob. & Statistics I & II
- Introduction to Physics I & II
- Calculus I, II, & III

SKILLS

PROGRAMMING

Over 3000 lines:
Python • Java • Ada • LaTeX

Over 1000 lines:
Assembly

Familiar:
CSS • HTML • Javascript

Other:
Git • Windows • MySQL
Visual Studio • Visual Studio Code
Unity • Sage Math • NetBeans
GNAT Programming Studio
nasm • DosBox • AWS
Jenkins • DynamoDB

WORK

ASSOCIATE SOFTWARE ENGINEER
Alert Logic | November 2018- October 2019

- Develop highly available, fault tolerant and cloud based (AWS) micro-services in OTP Erlang.
- Full service ownership consisting of development, monitoring, testing and production/integration releases with Jenkins.
- Extensive use of Amazon Web Services including DynamoDB, S3, CloudFormation, ASG, and EC2 and ECS instances.
- Followed the Agile software development process

PROJECTS

THREADED BINARY SEARCH TREE | Ada
Spring 2018 | https://github.com/stephenrobic/BinarySearchTreeAda

- This implementation uses Ada generics to allow flexible use of different data types for future use.

SIMPLE COMPUTER EMULATOR | Python
Spring 2018 | https://github.com/stephenrobic/SimpleCompEmulator

- Simple computer emulator, which reads 16-bit words sequentially from a binary file, converting certain bits of each word into assembly language instruction opcodes, memory addresses, and flag register bits.
- This was tested by creating a binary file consisting of instructions for a division calculator.

RESEARCH

GRAPH THEORY | Undergraduate Research
Fall 2017 | Huntsville, TX
Worked towards finding a disproof of the Graph Reconstruction Conjecture, to further test its validity. The Graph Reconstruction Conjecture says that a given original graph can be reconstructed from its list of single-vertex deleted subgraphs, using various techniques.

HONORS & DISTINCTIONS

2013	Lifetime	National Society of Collegiate Scholars
2017	Spring	President's Honor Roll (4.0 GPA)
2017	Fall	President's Honor Roll (4.0 GPA)
2018	Spring	Dean's List (3.5+ GPA)

REFERENCES AVAILABLE UPON REQUEST