Thomas Stovall | Software Engineer

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Summary

I am a self-motivated engineer with successful experience designing, developing, testing and documenting both embedded and general purpose applications. I am passionate about high performance computing, embedded software, microservices, cryptography, and machine learning.

Achievements

Product Research, Selection, and Development
- Researched and purchased programmable network routers for use in testing distributed, networked hardware and time-deterministic software.
- Designed and developed a router firmware extension for bed-of-nails network testing which was projected to save 1000+ hours of labor for 2016.
- Designed, developed, tested, and documented interactive test automation software which was awarded and recognized as saving $6M+ for 2015, with similar annually savings projected for 2016 and 2017.
- Researched and developed networking services for test automation software

Project Management and Effective Communication
- Led the effort in determining requirements and user acceptance for test automation software and associated extensions
- Regularly supported aerospace engineers in software use and development.

Published Research
- "GPUSCAN: GPU-Based Parallel Structural Clustering Algorithm for Networks" in *IEEE Transactions on Parallel and Distributed Systems* (https://ieeexplore.ieee.org/abstract/document/6967853/)

Experience

Security Systems Engineer / Data Security Cryptography, 2017-present
  Walmart Stores, Inc., Bentonville, AR
Test Automation Engineer / Advanced Aircraft Program, 2013-2016
  Gulfstream Aerospace Corporation, Pooler, GA
Research Intern / Bioinformatics, 2012
  University of Arkansas for Medical Sciences, Little Rock, AR
College Algebra Instructor / Mathematics Department, 2011
  University of Central Arkansas, Conway, AR

Education

Post Graduate Research in Applied Computing, 2011-2013
  University of Central Arkansas, Conway, AR
BS Applied Mathematics with Computer Science emphasis, 2006-2011
  University of Central Arkansas, Conway, AR

Programming Skills

Python	*****	HTML/JavaScript	***
C	****	RESTful APIs	***
C++	***	TCP/IP	*****
Nvidia CUDA	***	Assembly	***
SQL/RDBMS	***	Clojure	**
Unix/Bash	****	PowerShell	***