THOMAS ADAM

PROFESSIONAL SUMMARY

Principal DevOps Engineer with 8+ years of experience in full stack development specializing in DevOps, IT, and security

- Exudes strong leadership qualities stemming from passion, hard work, and dedication
- Presents technical concepts in a clear and concise manner to both technical and general audiences
- Works well with others to improve processes and establish best practices
- Possesses excellent analytical and problem solving skills
- Multi-tasks consistently at a high level

EXPERIENCE

Senior Data Engineer Apr ’20 - Present
Biocore, LLC – *Charlottesville, VA*

- Create and maintain the infrastructure and data pipelines for the Digital Athlete platform

Technical Fellow/Associate Director of DevOps and IT Dec ’17 – Mar ‘20
Commonwealth Computer Research, Inc - *Charlottesville, VA*

- Improved system documentation, workflows, and account management across the company and on projects
- Managed DevOps, SysAdmin, and security for a production Lambda architecture with 99.8+% uptime
- Worked with Director to guide direction of DevOps and IT in terms of hardware, software, and policies
- Facilitated coordination across several major projects to move towards a unified production architecture
- Worked closely with customers to listen to needs and recommend optimal ways forward
- Led meetings to foster ideas and promote best practices across the company
- Served as an advisor for DevOps and IT

Systems Engineer Jun ’11 - Nov ‘17
Commonwealth Computer Research, Inc - *Charlottesville, VA*

- Applied, evaluated, and optimized spatio-temporal predictive models for crime detection
- Developed software and web application for R&D demos integrating with teams from other companies
- Created and maintained Lambda architectures in bare metal and virtual environments
- Tested and benchmarked cluster configurations to optimize performance and minimize costs
- Migrated and updated existing infrastructure to redundant hardware
- Created and managed diskless Linux workstations
- Hardened and documented systems for accreditation

Graduate Research Assistant Aug ’09 - May ‘11
UVA Center for Applied Biomechanics - *Charlottesville, VA*

- Leveraged a vehicle/occupant computational model to simulate a collision
- Developed pattern recognition algorithms for identifying occupant postures
- Optimized driver restraint system to reduce injury in a collision
- Applied programming techniques to analyze data, tune models, and produce results

Undergraduate Research Assistant Jun ’08 - Aug ’08
University of Akron - *Akron, OH*

- Modeled lithium ion batteries and balanced the charge of cells using decentralized control

EDUCATION

MS in Mechanical and Aerospace Engineering Aug ’11
University of Virginia - *Charlottesville, VA*

- Thesis: “Identifying Occupant Parameters using a Pattern Recognition Methodology to Reduce the Risk of Injury in a Collision”

BS in Mechanical Engineering with High Distinction, Minor in Mathematics May ‘09
Ohio Northern University - *Ada, OH*

TECHNOLOGIES

Admin Services
Auditing
DHCP
DNS
LDAP
NFS/Appliances
Postfix/Dovecot

Automation
Cloudformation
Jenkins
Puppet
PXE Boot/Kickstart
Scripting

Build Tools
Artifactory
Atlassian Tools
Git
GitLab
Jenkins
Maven

Databases
Accumulo
Elasticsearch
Graphite
InfluxDB
MySQL
PostgreSQL
Solr

Languages
Bash
Java
JavaScript
MATLAB
Python
R
Scala

Operating Systems
CentOS/RedHat
Mac
Ubuntu
Windows

Software/Tools
GeoMesa
GeoServer
Grafana
Hadoop
Kafka
Kibana
NiFi
Quantum GIS
Spark
Storm
Zookeeper

Virtualization
AWS
Docker
Kubernetes
Libvirt/KVM
OpenStack
vSphere

Web Tier
Apache (httpd)
Tomcat
WildFly