LENNOX THOMPSON

lethompson@miners.utep.edu

3333 Finley Rd, Downers Grove, IL 60515

website: https://lethompson.github.io/

EDUCATION

University of Texas at El Paso *Jun 2016 - Dec 2017*
MS, Software Engineering

University of Texas at El Paso *Aug 2011 - May 2015*
PhD, Geophysics

University of Texas at El Paso *Aug 2008 - May 2010*
MS, Geophysics

Coppin State University *Aug 2003 - May 2008*
BS, Computer Science

COMPUTER SKILLS

Languages: Python, C, C++, Java, JavaScript, React, Matlab, HTML/HTML5, PHP, CSS, R
OS: Unix, Linux: (Fedora, Red Hat, Ubuntu, CentOs), Solaris Sun, Windows
Source Control: BitBucket, Github
Monitoring: Datadog
CI/CD: Jenkins
Databases: MySQL, PostgreSQL, T-SQL, MongoDB
AWS services: EC2, S3, DynamoDB, RDS: (MySQL, Oracle), RedShift, ElastiSearch, DataPipeline, Lambda, VPC, Security Groups, NACL, CloudWatch, CloudTrail, IAM, Terraform, ElasticBeanstalk, Opsworks

WORK EXPERIENCE

Ensono - AWS Partner Oct 2019 - Present
AWS DevOps Engineer

· As a Cloud DevOps Engineer, I ensure the stability, integrity and efficient operation of information systems that support core organizational functions and Ensono Clients. Responsibilities include monitoring, maintaining, supporting and optimizing all operating systems and cloud infrastructure assigned.

Amazon Web Services Mar 2018 - Jun 2019
AWS Cloud Technical Trainer

· Taught customers of all sizes on the value proposition of AWS, led training sessions for customers/prospects through building proof of concept presentations and provided training and helped customers with AWS qwiklab sessions. Launched and ran Linux VMs to host web content to access log files, metadata for customer presentations. Full stack web development utilizing Bootstrap, PHP, MySQL, HTML/CSS, React.js, D3.js, JavaScript to build websites for customer cloud demos.

Exxon Mobil May 2017 - Aug 2017
Software Engineering Intern

· Designed a Dashboard solution for Reporting data using Microsoft Azure SQL Tableau. Built and automated Azure Microsoft SQL Server compiling monthly data, created workflows and linked to a Tableau storyboard creating significant time taking a two week per month process to 10 minutes.

Lumina Geophysical LLC May 2015 - May 2016
Software Geophysics Programmer

· Performed software installations, testing, and license management. Developed software modules in Matlab. Written and maintained extensive technical documentation for earthquake data.

Cybershare Research Center   Aug 2008 - May 2015
Geophysics Research Assistant

· I expanded on a constrained optimization approach for a joint inversion least-squares (LSQ) algorithm to characterize one-dimensional Earths structure for multiple geophysical data sets. In particular, I was able to apply the Multi-Objective Optimization Problem (MOP) Technique to the 1-D inversion, and use three geophysical data sets: receiver functions, surface wave dispersion curves, and teleseismic body wave times. To develop 3-D models, I inter- polated the 1-D results using a kriging approach, only when there was excellent station coverage. I applied this approach to two different tectonic provinces: the Rio Grande Rift, an ancient rift system in Texas. Also, implemented Zhu & Kanamori teleseismic receiver function technique to map the crustal & velocity structure of the Rio Grande Rift.

UNAVCO inc   May 2008 - Aug 2008
Computer Science Intern

· This research focused on the Southern Rio Grande Rift (SRGR) to develop a contour map of velocity structures and moho depth using data from seismograms that have been installed around the region.

UNAVCO inc   May 2007 - Aug 2007
Computer Science Intern

· Updated Matlab version 5.3 to Matlab version 7.0 to show the displacement model of Taal Volcano The updated model and research helped the scientific community to use Matlab version 7.0 to better understand the unknown processes of the magma chamber in Taal Volcano.

CERTIFICATIONS

AWS Certified Cloud Practitioner
AWS Certified Solution Architect - Associate
AWS Certified Developer - Associate
AWS Certified SysOps Administrator - Associate
AWS Certified Solution Architect - Professional
AWS Certified DevOps Engineer - Professional
AWS Certified Security Specialty
AWS Certified Database Specialty
Microsoft Technology Associate: Database Administration Fundamentals (MTA)
Microsoft Certified: Azure Fundamentals