

Matt Cliff



cliffconsulting.com | matt@denvercliffs.com | 3970 S. Narcissus Way, Denver, CO 80237 | 720-280-6324

Skills and Abilities

Developer / Architecture

- Certified AWS Solution Architect – Associate; proficient with EC2, VPC, Lambda, S3, CloudFormation, RDS
- Container and CI Pipeline experience with Docker, GitLab, BitBucket, and AWS CodeDeploy
- Proficient with Java, and familiar with programming languages, Bash Script, Python, Perl, C#, C/C++, NodeJS
- Familiar with Apache Frameworks – HTTPD, Tomcat, Hadoop, Maven, Hive, Pig, Spark, Mahout
- Database Design, RDBMS systems: Oracle, SQL Server, PostgreSQL, MySQL, DynamoDB, MongoDB
- Familiar with Microservices Architecture; API Design, REST, AWS API Gateway, Kubernetes, AWS Enterprise Cluster Service (ECS)
- Proficient with UNIX/Linux Administration; Linux user since 1995

Data Science Foundation and Continual Learner

- Familiar with R including tidy, knitr, ggplot2, dplyr, caret, and LaTeX
- Familiar with key Python ML libraries: sklearn, pandas, numpy, matplotlib, nltk, TensorFlow
- Understanding of Decision Trees, Neural Net, Boosting, SVN, k-Nearest Neighbor, Clustering

Management / Communication

- Managed Department Project Portfolios, Budgets, Staffing Plans, Department forecasts
- Facilitated Team meetings, Team member recognition and talent management.
- Communication with senior management and product owners; many remote partners and co-workers

Training and Certifications

Coursera - Data Science Specialization – John Hopkins (03/2018)

- Capstone Project - <https://mcliff.shinyapps.io/qknewt/>

AWS Certified Solution Architect – Associate (12/2017)

Experience

Software Engineer (contract) | Nordstrom Credit | 07/2018 – current

- Refactor Python code delivered by 3rd party vendor with AWS Lex integration, upgrade 2.7 to 3.6
- Build CloudFormation templates and CI pipeline (GitLab) to automate deploy for Chat and API layers (AWS Lambda based)
- Developed Unix scripts to automate reporting, monitoring and build tasks
- Built docker images to support CI flow
- Used AWS Athena for reporting to perform data mining on legacy application logs
- Consult and advise on AWS services including API Gateway, DynamoDB, SNS, Lex, Lambda, Athena, S3 and CloudFormation
- Developers reporting framework leveraging Lambda to kick off EC2 spot instances for ETL processing

Independent Consultant | Cliff Consulting | 05/2018 – current

- Use CloudFormation and Serverless framework to deliver templates for building multiple environments including IAM roles and permissions

- Developed AWS/Bit Bucket CI/CD pipeline for Angular project with PostgreSQL RDS instance running Dot Net on AWS Container Service/Docker with Autoscaling
- Deployed Linux based executable (ffmpeg) to perform MP3 encoding in the AWS lambda environment
- Deliver AMI based on Amazon Linux to support specific Machine Learning libraries and R-Server/Shiny
- Transferred 12TB of data from S3 buckets in different accounts/regions.

Technology Manager | Wells Fargo | 08/2007 – 10/2017

- Communication with senior management, product owners and key stakeholders.
- Managed Java, Mainframe (Hogan), and C# teams; with number of (FTE) reports ranging from 8 to 40
- Managed budgets, vendor invoice, staff planning, forecasting and cost allocation for \$2mm – \$4mm budgets
- Interviewed and hired over 15 employees, and 50 contract non-employee positions
- Managed critical 24x7 applications with disbursed teams in US and India
- Oversaw projects through entire SDLC; primary tools: .Net, Java, Tomcat, Apache, Unix, and Oracle DBMS; ClearCase, Jenkins, Gradle and TFS.
- Supported applications with Kofax, Imagine Solutions (Encapture), Hogan (CSC), C#, Java, and SOA architectures
- Lead and co-ordinate inter-team troubleshooting during critical production events

Web Developer | Wells Fargo | 08/2004 – 08/2007

- Team Lead for CIV application (business critical retail call center for 10k agents)
- Oversaw projects delivery and partner with PMO for application code delivery
- Managed implementations of approximately 12,000 development hours annually
- Redesign OO model to consolidate MVC pattern and factory pattern for invoking SOAP Web Services across ten service providers
- Primarily worked with Java, Tomcat, Apache, Unix, and Oracle DBMS

Independent Consultant | Cliff Consulting | 11/2002 – 07/2004

- Java Development and Linux Systems support services
- Developed and ran applications primarily using Java, LAMP (Linux, Apache, MySQL, Perl), Tomcat, and J-Boss technology stacks
- Install and provision Linux blade servers in Data Center

Web Developer | Navidec | 05/2000 – 11/2002

- Technical project lead (supporting Java applications, WebLogic/J-Boss, with Oracle DBMS primarily)
- Oversee projects through entire SDLC
- Work on organizations' Software Configuration Management and release process.

Software Engineer (contract) | Agilent/Avaya | 10/1998 – 05/2000

- Worked with Unix and IVR (telecom) technologies supporting the provisioning and set up of equipment
- Developed shell scripts to automate update and install process
- Created Java and Perl components to monitor and report on servers located in data centers worldwide

Research Assistant | Los Alamos National Lab | Summers 1997 and 1998

- Model numerical methods for solving non-linear ODE and PDE with Brownian Motion (Runge-Kutta methods)

Education

MS | Mathematics | 1996 | Louisiana State University, Baton Rouge, LA

BS | Mathematics | 1994 | Virginia Tech, Blacksburg, VA

Publication

“Positivity, Trotter Products, and Blow-up”; Matt Cliff, Jerome Goldstein, Markus Wacker; Positivity, Volume 8, Issue 2 pp 187 – 208, June 2004. – A new approach to blow-up results for nonlinear evolution equations.