Fatmir Likrama

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https://flikrama.github.io/

Engineering professional with consulting, project management, statistics, software development, data analysis and machine learning experience. Published in signal processing and data science. Strong analytical skills with a background in Physics and Engineering with proven communication skills.

Skills

- Proficient user of Python and SQL, familiar with R, C++/C# and Visual Basic
- Expert utilizing MS Excel, Visio, PowerPoint, Access and TFS
- Experienced with AWS and Azure cloud environments
- Multiple project experience using Scikit-Learn, Tensor Flow as well as web scraping and signal processing Python packages
- Trained in Apache Spark
- Proficient with Power BI and SPSS, familiar with Tableau

Machine Learning/Data Science Project Experience

- Lead Neural Network, Clustering and Fuzzy Logic algorithm implementation for rock typing and classification in commercial Petrophysics products
- Pioneered machine learning workflow to synthesize log data for Geomechanical modeling of natural gas stimulation success—expandable to other applications
- Researched and published on time series analysis, signal processing (wavelet transform) and automatic change point detection methodology
- Developed scripts for seamless data transfer from geological databases to FEM platforms using Python and SQL

Employment Experience

Rock Physics Product Owner, Landmark Software, Halliburton **6/2019 – 5/2020** **Houston, TX**

- Managed a multimillion revenue generating products portfolio within an Agile framework
- Developed roadmap and vision for Rock Physics products and maintained relationships with client
- Accomplished product migration to cloud within 6 months

Consultant/Project Manager, Halliburton **5/2012 – 6/2019** **Houston, TX**

- Brought on average more than $500k yearly revenue to the organization by performing Consulting/Project Management work for operators all around the globe and by pull-through
- Enhanced offerings' portfolio by adding 4D Geomechanical modeling and wellbore stability workflows considering shale swelling chemical effects

Self Employed Tutor,
Self Employed **1/2009 – 5/2012** **Austin, TX**

Tutored undergraduate and graduate students in person and online on Statistics, Math, Physics and Chemistry

Engineering Intern, **5/2007 – 8/2007**
Schlumberger **Sugar Land, TX**

Modeled mud filtrate invasion, fluid flow to a sampling probe and drilling mud filtrate clean up in a Wireline Formation Testing utilizing Eclipse 300 Reservoir modelling software

Research Assistant,
University of Texas at Austin **6/2006-12/2008** **Austin, TX**

Collaborated in research led by Dr Jon Olson and Prof Mukul Sharma on coupled fluid dynamics and mechanics of weakly cemented and un-cemented formations, permeability variation, stress and fracture reorientation and wellbore failure analysis modeling

Education

University of Texas at Austin,
Master of Science in Engineering, PE **8/2006 – 12/2008** **Austin, TX**

Thesis: Study of Mechanical and Flow Properties of Weakly Cemented and Un-cemented Sands Using Discrete Element Method Modeling

Bogazici University, **9/1999 – 6/2003** **Istanbul, Turkey**
Bachelor of Science, Physics

Graduated ranking top of 2003 class, Physics Department

Technical Publications

- SPE-195889-MS, 2019: Improved Understanding of Dynamic Fracture Behavior in Unconventional Horizontal Wells Using Wavelet Transformation
- ARMA 2019-431: Inferring Current Day and Paleo Stress Orientation from Natural Fracture Geometry
- AAPG 2017: Conducting Integrated Reservoir Studies in Quartzite Hamra-Reservoir-Tight Oil, Southern Periphery of Hassi Messaoud Field, Algeria
- ARMA 2016-514: Workflow on Incorporating Thick-Walled Cylinder Test Results in Finite Element Models of near Wellbore for Sanding Prediction Studies
- ARMA 2015-212: A Practical Log-Based Approach on Assessing and Preventing Wellbore Instability Considering Both Mechanical and Shale Swelling Effects

US Citizen since 2015