

FAHIM RUSTAMY

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SUMMARY

Engineering Ph.D. with a focus on probabilistic modeling, machine learning, and structural risk assessment with 5+ years of professional and academic experience. Proficient Data Scientist with a strong mathematical and statistical background with extensive knowledge and expertise in cloud computing and machine learning.

- AWS Certified Machine Learning Specialty
- AWS Certified Data Analytics Specialty
- AWS Certified Developer Associate
- AWS Certified Cloud Practitioner
- Certified Tensorflow Developer

EDUCATION

Lehigh University, Bethlehem, PA

August 2015 - May 2021

Ph.D. & M.Sc. in Engineering/Probabilistic Modeling of Engineering Structures

Relevant Coursework: Deep-learning, introduction to machine learning, random vibration, engineering probability, Data Mining, Engineering Risk Analysis.

Kabul University, Kabul, Afghanistan

Jan 2013

B.Sc. in Civil Engineering

EXPERIENCE

Lehigh University, ATLSS Center

August 2015 - Present

Research Assistant

Bethlehem, PA

- Developed synthetic seismic ground motions records using stochastic processes method for the Eastern US.
- Proposed a new method for evaluating the fragility of engineering structures using Artificial Neural Networks.
- Developed system reliability of power systems using MCS and Logistic Regression Methods.
- Proposed a simulation method using damage data and multivariate random samples for system resilience.
- Presented two days of training on short circuit time-history analysis for ConED staff in their NYC office.
- Taught five undergraduate courses as a teacher assistant.

State Corps Engineering

October 2012 - May 2015

Project Manager

Kabul, Afghanistan

- Managed US Army \$30+ million worth infrastructure projects. Prepared contract drawings and project specifications for the client.
- Communicated with the client (USACE) and site teams to correct construction QC and safety deficiencies.
- Completed the projects on time and was awarded several completion awards from USACE & government.

SKILLS

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| Languages | Matlab, Python (Pandas, Numpy, Matplotlib, scikit-learn, Flask and Tensorflow) |
| Cloud | Sagemaker, Athena, Redshift, S3, EMR, Hadoop, AWS Lambda, ECR, Kubernetes Kinesis and other AWS technologies. |
| ML Models | Linear and Logistic Regression, XGBoost, Neural Network, RNN, CNN, and KNN, using Tensorflow and Sagemaker frameworks |
| Others | LaTex, SQL, Docker, GIT and Linux |

FELLOWSHIPS AND AWARDS

- Fulbright Fellowship (was selected from 5000 applicants)
- Gibson fellowship (was awarded for excellence in research)