

Austin Lasseter, PhD

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SUMMARY

Deep learning, AWS cloud architecture, applied data science, data engineering, trained models deployed in production, data visualization, business consulting, leading technical workshops & training

TECHNICAL SKILLS

- Deep Learning (Amazon SageMaker, keras, tensorflow)
- Natural Language Processing (Amazon Textract, BlazingText, nltk, spacy, gensim, word2vec)
- Modeling, EDA and Data Analysis (xgboost, scikit learn, pandas, numpy)
- Data Visualization (Amazon Quicksight, plotly dash, matplotlib, seaborn, Tableau)
- Data Analysis (SQL, Amazon Athena, Quicksight, Glue)
- Graph Database (Apache Gremlin, Amazon Neptune)
- Cloud Infrastructure (CloudFormation, Terraform, Golang, bash scripting)
- Cloud Computing with AWS (Lambda, CloudFront, S3, EC2, RDS, Beanstalk)

EDUCATION

- Ph.D. Policy, University of Maryland, College Park MD (2013)
- M.A. Policy, University of Maryland, College Park MD (2009)
- B.A. Classics, University of Dallas, Irving TX (2004)

CURRENT ROLE (FULL-TIME)

[Python Engineer, ScienceLogic](#) (September 2021-present)

- Building upon the SL1 platform to integrate with and monitor AWS and other cloud technologies
- Creating libraries to simplify data collection, manipulation, data pruning, trending and analytics, etc.
- Writing and maintaining unit tests and other automated tests
- Lead technical decisions within the Scrum team leading to high performance, maintainable solutions

CURRENT ROLE (PART-TIME)

[Data Science Instructor, General Assembly](#) (November 2018-present)

- Extensively re-developed data science curriculum to include cloud deployment & deep learning
- Wrote & taught twelve 10-week cohorts of Data Science (supervised and unsupervised learning)
- Wrote & taught four 1-week immersive cohorts in Python programming, app deployment
- Wrote & taught three 1-week immersive cohorts of data analytics (SQL and Tableau)
- Deployed multiple machine-learning POC applications for student imitation
- Authored series of tutorials about SageMaker, Lambda, CloudFront, and other AWS services

PREVIOUS ROLE (FULL-TIME)

[Data Scientist, US Department of Defense](#) (October 2019-September 2021)

- Deployed deep-learning text classification model using AWS services
- Authored analysis and visualization of S3 data lake using AWS Athena and AWS QuickSight
- Developed graph database of social network using Apache Gremlin, loaded onto AWS Neptune
- Established AWS Academy Cloud Foundations course at Pentagon, taught 5 cohorts
- Managed cloud migration team building serverless software application in AWS GovCloud
- Nominated for 2020 FedScoop50 Award "Tech Champion of the Year"

PREVIOUS EXPERIENCE

- Data Scientist, Deloitte Consulting (April 2018-October 2019)
- Data Scientist, Summit Consulting (June 2016-Dec 2017)
- Senior Analyst, American Institutes for Research (April 2015-May 2016)
- Senior Analyst, Avar Consulting (April 2014-April 2015)
- Senior Analyst, Pearson (August 2013-March 2014)
- Analyst, American Institutes for Research (April 2011-August 2012)
- Analyst, SRI International (Sept 2009–February 2011)
- Graduate teaching assistant, University of Maryland, College of Education (2010)
- Middle school teacher, Gilman Middle School, Baltimore, MD (2004-2009)
- Middle school teacher, Christian school network in CT/TX/MD (1996-2003)

CERTIFICATIONS

- AWS Data Analytics - Specialty Certification (July 2021)
- AWS SysOps Administrator Associate SOA-C02 Certification (Feb 2021)
- Udacity AWS Machine Learning Engineer Nanodegree (Nov 2020)
- AWS Certified Machine Learning - Specialty Certification (June 2020)
- CompTia Security+ Cybersecurity Certification (May 2020)
- AWS Academy InstructorAccredited Educator (Apr 2020)
- AWS Certified Developer - Associate Certification (July 2019)
- AWS Certified Solutions Architect - Associate Certification (Apr 2019)
- AWS Cloud Practitioner Certification (August 2018)
- General Assembly Data Science Immersive Course (April 2018)
- ScrumMaster Certification, Scrum Alliance (Jan 2018)
- IBM Certified Specialist in SPSS Statistics (Aug 2009)

SECURITY CLEARANCE & ACCESS

- US Dept of Defense TS-SCI Clearance (Adjudication Spring 2021)
- US Dept of Defense Secret Clearance (Adjudication Winter 2020)
- US Dept of Defense Form 2875 System Authorization Access

PROFESSIONAL PORTFOLIO

- [Predicting mortgage loan approval application](#) (Random Forest classification model)
- [Predicting home values application](#) (linear regression model)
- [Graph database analysis](#) of github repositories using Apache Gremlin, Amazon Neptune
- [Latent Dirichlet Allocation](#) with medical transcripts
- [Deploying an NLP classification model](#) with Amazon SageMaker and Lambda
- [How to resize an image using Amazon S3 and Lambda](#)
- [How to build a password-protect website using AWS Cloudfront, Lambda, and S3](#)
- [Multi-label classification model](#) using KNN
- [Classification model](#) using logistic regression
- [Text classification model](#) using NLTK
- [Data visualization dashboard](#) and [choropleth map](#) using Plotly Dash, delivered as part of tutorial
- [Interactive python application](#) deployed in cloud environment, delivered as part of tutorial
- [Demonstration of Plotly Dash application](#) deployed in cloud environment, delivered as part of tutorial