

Data Engineer

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Skills

- Python
- Spark
- SQL
- Functional programming
- ETL
- Databricks
- Kafka
- Knowledge graph
- Ontology
- SPARQL
- OWL

Experience

Lead Data Engineer

Chubb, 2018 - Present

- Leading a team to create the insurance industry's first knowledge graph
- Create several ETL pipelines for unstructured data in NA, EMEA, APAC, and LATAM
 - Batch and streaming
 - On-premise and cloud infrastructure
 - Written in a functional programming style to minimize production issues
- Extracted entities from unstructured data using NLP and ML
 - Saved Chubb over \$1 million
 - Random forest classifier
- Identified Chubb's top prospective customers using Spark ML in Databricks
 - PCA and k-means clustering
- Parallelized Chubb's custom text encryption algorithm in Spark
 - Improved benchmark's runtime from 50,000 minutes to 20 minutes

Captain

United States Marine Corps, 2013 - 2017

- Served as an unmanned aircraft commander
- Planned, coordinated, and led over 200 flight hours
- Replaced a team of statisticians, saving the USMC \$500,000
- Overseas deployment to the Philippines. Responsible for communications, logistics, medical support, the security of over 50 Marines, and \$15 million worth of equipment, while leading aerial reconnaissance missions.

Aerospace Engineer

Delta Air Lines, 2012 - 2013

- Responsible for resolving complex engineering problems related to an aircraft's interior cabin

Education

Degree	School	Graduation Year
Data Science Immersive	General Assembly NYC	2018
M.S. Aerospace Engineering	University of Illinois Champaign-Urbana	2012
B.S. Aerospace Engineering	Illinois Institute of Technology	2011

Resume written in markdown and then converted to pdf using pandoc