

# Corey K. Clippinger

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## Selected Skillset

*Expertise:* AI, Data engineering, Dev-ops, Web Scraping, Web Development, Load Testing  
*Technical Skills:* Snowflake, Python, MS SQL, MongoDB, Linux, pinecone, langchain

## Selected Experience

### Cloud Database Engineer | Avetta LLC | 09/2022 – 05/2024

- Engineered and maintained robust data pipelines moving data from MongoDB to Snowflake, enhancing data accessibility and reliability.
- Monitored and managed MongoDB backups and restorations across production, QA, and development environments, ensuring data integrity and continuity.
- Administered Snowflake and MongoDB databases, optimizing performance, managing user authorization, and implementing cost-effective strategies.
- Prototyped and implemented Pinecone vector databases for LLM solutions using Python and RAG, contributing to advanced AI capabilities.
- Collaborated on the orchestration, planning, and testing of a major Jenkins upgrade, improving automation efficiency.

### Analytics Developer / Data Engineer | Avetta LLC | 11/2019 – 09/2022

- Collaborated in a multidisciplinary agile team, enhancing our product's analytics platform within a comprehensive supply chain compliance and risk management application.
- Maintained and extended ETL pipelines using Jenkins, SQL, and Bash, ensuring data accuracy and workflow efficiency.
- Led performance testing initiatives and established automated QA tests, improving application reliability.
- Designed and developed user-friendly data models, enabling business analysts to create insightful client-facing content.
- Reverse-engineered MongoDB back-end to normalize data into a relational database, enhancing data structure and accessibility.
- Trained and on-boarded new developers, fostering a collaborative and knowledgeable team environment.
- Validated and transitioned data from SQL Server to Snowflake, ensuring seamless data migration.

### Business Intelligence Developer | DTA Finance | 06/2018 – 11/2019

- Planned and developed a Flask-based client portal featuring analytics dashboards, interactive maps, and user interfaces for financial data manipulation, with scheduled email reports using Redis as a queue system.
- Collaborated on Laravel application development with contracted developers, enhancing application functionality.

- Engineered and maintained web scrapers for 57 public websites, ensuring comprehensive data collection.
- Managed all production-level MySQL queries for automated reporting, ensuring data accuracy and efficiency.
- Mentored colleagues on web development and data engineering, promoting skill development and team growth.
- Developed data verification applications to ensure the accuracy and integrity of client data uploads.

## Data Engineer | Decissio | 09/2016 – 03/2018

- Assisted in founding the Kosovo based startup with local partners and laid the initial foundations for the machine learning and data analytics operations.
- Primary lead for statistical modeling and experimenting with and analyzing machine learning models we developed.
- Chief Python developer and lead for developing analytics reports for investors and clients that explain our methodologies and value additions.

## Monitoring And Evaluation Committee Lead | Peace Corps | 06/2015 - 08/2017

- Utilizing Python and R, performed data analysis on student test results from our education program and curated reports to communicate insights and make recommendations.
- Utilized MySQL Workbench to store and organize results from a multi-year rounds of student testing to optimize data integrity and standardization.
- Developed Jupyter notebooks to be used for analysis of different aspects of the Peace Corps program, along with detailed documentation for a non-technical audience on how to use them.
- Assisted NGO with creating a series of scripts in Python to parse data from Kosovo's public finance databases and convert them into internationally recognized public finance formats.

## Education

### UNIVERSITY OF CALIFORNIA IRVINE | Graduated 06/2018 | CERTIFICATE

Data Analytics Bootcamp

Key Coursework: SQL, Python, Javascript, R, Git, Interactive Data Visualization (D3), REST APIs, Natural Language Processing, Web Scraping, Geo-mapping (Leaflet.js), Tableau, Machine Learning, Hadoop, Spark

### NORTHEASTERN UNIVERSITY | GRADUATED 09/2014 | BACHELORS

Double Major in Economics and International Relations

Related coursework: Econometrics, Stochastic Processes and Advanced Statistics, Linear Algebra