

Ian Wesley Armstrong

www.linkedin.com/in/ianwesleyarmstrong
ianwesleyarmstrong@gmail.com
(913) 908-2249

Education

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| Kansas State University
<i>Bachelor of Science in Computer Science and Applied Mathematics</i>
– 3.56 GPA | Manhattan, Kansas | Expected May 2021 |
| Czech Technical University
<i>Bachelor of Science in Information Technology</i>
– Relevant Coursework: Data Mining, Introduction to Artificial Intelligence, Database Systems | Prague, Czechia | January 2019 - May 2019 |

Experience

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| Commerce Bancshares
<i>Enterprise Data Warehousing</i>
– Automated build of containerized Data Science environments using Puppet, Kubernetes and Docker.
– Environments are built using RHEL, using Anaconda to manage Python/R packages with database connectivity to Teradata, SQL Server, S3 and Hive.
– Implemented Airflow as a job scheduler, enabling Data Scientists to develop workflow graphs and create robust pipelines for implementing models into production. | IT Intern (DevOps/ETL) | June - Present |
| Kansas State University
<i>Department of Biochemistry and Molecular Biophysics</i>
– Contributed to the development of ORGANIC, a Python/Tensorflow framework to generate novel molecules.
– ORGANIC utilizes Neural Networks and Reinforcement Learning to bias generated compounds towards desired physical or chemical properties.
– Decreased runtime of ORGANIC by 40% on our compute cluster by altering an algorithm to improve GPU memory usage, allowing for more efficient usage of our computing resources. | Undergraduate Research Assistant | January 2018 - February 2019 |

Projects

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| Financial Data Warehouse
– Created a data warehouse for storing tick data about various financial instruments, including hourly forex exchange rates and securities present in major indexes.
– Infrastructure is managed by Kubernetes, with Airflow being used to schedule all ETL processes.
– Time-series data is stored in TimescaleDB, while unstructured data is stored in HDFS. | |
| MLB Player Trade Evaluation
– Python Program that uses Logistic Regression and data collected using BeautifulSoup to determine if a player is likely to be traded based on their offensive/defensive statistics, salary, and length of contract. | |

Skills and Training

- **Languages:** Python, Bash, SQL, C/++, Java, Ruby, R, Scala, C#, MATLAB
- **Frameworks/Packages:** Puppet, Docker, Airflow, Kubernetes, SciKit-Learn, TensorFlow, Spark
- **MOOC's:** Python for Data Science, Functional Programming in Scala, Machine Learning by Andrew Ng

Extracurriculars and Awards

- College of Arts & Sciences Undergraduate Research Award
- Delta Sigma Phi Fraternity - Director of Design & Apparel
- Association for Computing Machinery - Open House Chair
- Mathematical Modelling Seminar
- Eagle Scout, Boy Scouts of America, 2014