

James Mullinix

Software Engineering & Data Science

OBJECTIVE

Technical, hands-on leader in the Software Engineering and Data Science space looking for opportunities of increasing responsibility. I have a solid track record of managing both individual and team projects to success and hitting the bottom line for my employers. My expertise is in developing scalable, supportable analytics applications using an Agile product management style and a CI/CD development workflow.

EXPERIENCE

Senior Manager, Software Engineering

Collins Aerospace, San Diego, CA / February 2020 - Present

- Ran a 7 person Agile SWE team including a PO. Responsible for budget in the low millions including headcount and infrastructure.
- Developed an order monitoring web application deployed throughout the Collins Aerostructures manufacturing network. Increased on time delivery 5-10% per line and reduced QN ages by a day on average. This product has visibility up to the Collins CEO.
- Pioneered AI products inside ASG, using a gradient boosting regressor to predict order delivery and kmeans to prioritize QN's (both deployed in the above application).
- Owned 20+ other deployments, several of which were mission critical to the lines functioning.
- Enrolled in Collins' High Potential Employee Retention program.
- Built and deployed a web app to monitor tooling for a new line of business ensuring on time delivery to the new customer.
- Implemented a CI/CD workflow for our projects using Github and Jenkins to speed delivery with the insurance of test coverage.
- Managed the release cycle and communicated any changes to roadmap timelines to the SLT.

Manager, Data Science (Promoted)

Collins Aerospace, San Diego, CA / December 2018 - February 2020

- Stood up and owned ASG's core data processing platform, Apache Airflow on Azure GovCloud.
- Authored DAGs (ETL) to produce automated production datasets for ASG's core business intelligence.
- Developed shopfloor software for managing and optimizing Autoclaves using PyQT (pre-cloud access)
- Deployed BI reports on quality, Autoclave performance, and line performance.

CONTACT

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SKILLS

Programming:

Python, Javascript, Java, Bash (+more)

Databases:

SQL, NoSQL, Graph

Data Processing:

Spark, Airflow, Talend

Web Development:

HTML/CSS/JS, Flask, Svelte, Bootstrap

Data Visualization:

D3, Tableau, JasperBI

OS:

Linux (Ubuntu, RHEL), Windows

Testing:

PyTest, Selenium

Tooling:

PyCharm, Git, Jenkins, Jupyter, Docker

AI/ML:

Scikit-Learn, Tensorflow

Cloud:

Azure, AWS, GCP, Digital Ocean

Monitoring:

Datadog

Security/Networking:

SSL, PAM, NMAP, Wireshark (+more)

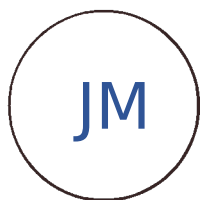
EDUCATION

M.Sc:

Engineering Science, Artificial Intelligence
Rensselaer Polytechnic Institute
2021

B.Sc:

Management Science
UC San Diego
2013



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EXPERIENCE (Continued)

Data Scientist

Cisco Systems, San Diego, CA / November 2017 - December 2018

- Developed a gradient boosting classifier (machine learning model) to identify service quotes that would be likely to book if some contact information was remediated. This led to over a million dollars in bookings towards our business unit's yearly goal of 30 million dollars. This was deployed in a Spark job to constantly monitor and rank these quotes with bad contact info or bounce-back emails.
- Created dashboards monitoring fail rates of automated email batches to end clients and partners. These automated emails were the basis of our business so failure to act on a drop off in service directly impacted revenue. This report suite and alert system ensured that we had visibility into the health of our email service.
- Delivered mission critical dashboards used for revenue reporting, product and sector analysis. Led BU in reports produced and total views. Also delivered high level analysis on trends and recommendations.
- Designed and developed distributed computing applications using Spark to drive internal analytics platforms.
- Placed in the top 2% of the Cisco AI challenge (1200+ competitors).

Data Engineer (Promoted)

Cisco Systems, San Diego, CA / October 2016 - November 2017

- Built, deployed, and maintained the internal ETL system in Spark. Migrated many legacy ETL jobs off of Talend. Deactivating Talend licenses allowed for yearly saving of \$200k. The system drives several reports for consumption by key stakeholders and executives.
- Held ownership of the most significant metrics in the BU including bookings (revenue), and email performance.
- Built out geospatial analyses of our customers using QGIS and Tableau. This mainly helped executives understand market performance outside of the US and Europe.
- Often gave presentations pertaining to data infrastructure, processing capability, as well as reporting and integration potential to audiences up to 100 people.

Other Roles More Than 5 Years Ago

KGPF (Programmer Analyst), San Diego, CA / 2015-2016

- Developed ETL and data platform for property taxes in multiple counties and districts.
- Built and maintained tax research software using the WAMP stack.
- Contributed to another line of business by pioneering GIS mapping capabilities using QGIS.

TheRealReal (Financial Analyst), San Francisco, CA / 2013-2014

- Worked on reconciliations for monthly/quarterly/yearly close.
- Performed inventory and shipping analysis to reduce costs.
- Worked with KPMG auditors to produce the first audited financial statements for the firm.
- Used SQL to combat credit card fraud. Data was used in court to bust a fraud ring in New York.