

MATTHEW WIDJAJA

<https://wimagine.org/matt>

I am an engineer who spans the entire Data Science stack. I create both the data pipelines and the models, we can ingest and take action on big data. Beyond being a Data Scientist, I leave people better than I found them, by contributing to the team's leadership, education, and culture wherever I go.

SKILLS

- **Programming & Shell:** Python (Primary), C/C++, MATLAB, R, Bash, Csh, Tcsh, Zsh
- **Python General Packages:** Dask, Flask, Jupyter, Matplotlib, Numpy, Pandas, Prodigy, Requests, Scipy
- **Python Modeling Packages:** Keras, OpenAI, PyTorch, Retro, Scikit-Learn, Spacy, TensorFlow
- **Cloud, Containers, & GPU:** AWS, Cuda, Digital Ocean, Docker, Domino, Kubernetes, MS Azure
- **Databases:** SQL (Primary), Postgres (Primary) AWS DynamoDB, Elasticsearch, MySQL, SQLite
- **Models:** Machine Learning, Deep Learning (TimeGAN), NLP, Reinforcement Learning (MA-DDPGO)
- **Teaming & Version Control:** Git (Primary), Agile (Scrum Master), Github, GitLab, Jira, Subversion

CURRENT EXPERIENCE

Senior Engineer, Lockheed Martin ATL — 2018–Present

- Developed several Data Engineering Python Pipelines, with respect to the customer's needs.
- Trained ML and Neural Network models in Python, using an in-house dataset of several hundred participants with wearables and environmental sensors.
- Proposed and led a research project to investigate the effects of cognitive biases in developers.
- Created game-theory models and integrated them in an in-house Docker + Python based pipeline.
- On my own initiative, created a knowledge base of our IT environment, to assist newer engineers.
- Served as the scrum master on several teams, adapting Agile to best meet each team's needs.
- Was Employee of the Quarter in 2021 for making significant technical and cultural contributions.

Rock Database Developer Volunteer, Epic Church — 2021–Present

- Managing a Microsoft Azure environment to host a SQL based Relationship Management Server.
- Implemented a cloud based check-in platform, operating on SMS, iPads, and Windows devices. Hosted alongside a dynamic web page I created, to help each engage with each guest.
- Supporting Agile-based communications between non-technical clients at the Church with the other members of the technical team in regards to expectations.

FORMER EXPERIENCE

- Engineer, Lockheed Martin RMS — 2014-2018
- Student Web Developer, Stockton University — 2012-2014

PUBLICATIONS

- Programmatically Identifying Cognitive Biases Present in Software Development — 2021 with LM ATL
- Classifying Fashion MNIST Data — 2017 with Dr. Russ Manson
- Modeling Ecological Networks — 2014 with Dr. Jason Shulman
- Novel Approach to Circuit Analysis — 2014 with Dr. Jason Shulman

EDUCATION

- Data Science MS; Stockton University — 2018
- Computational Science BS with Honors and Minor in Math + Biology; Stockton University — 2014