MATTHEW WIDJAJA

I am an engineer who spans the entire Data Science stack. I create the data pipelines and the models, so 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 Packages: Dask, Flask, Jupyter, Matplotlib, Numpy, Pandas, Prodigy, Requests, Scipy
 - Python Modeling: Keras, OpenAI, PyTorch, Retro, Scikit-Learn, Spacy, TensorFlow
- Cloud & Containers: AWS, Cuda, DigitalOcean, Docker, Kubernetes, Jenkins, MS Azure
- Data & Storage: SQL (Primary), SQLite (Primary), AWS DynamoDB, ElasticSearch, Minio, Postgres
- Models: Machine Learning, Deep Learning (TimeGAN), NLP, Reinforcement Learning (MA-DDPG0)
- Teaming & Version Control: Git (Github & GitLab), Agile (Scrum Master), Jira, MLFlow, Svn

CURRENT EXPERIENCE

Senior Engineer, Lockheed Martin ATL - 2018-Present

- Developed several Data Engineering Python Pipelines to process and clean data for modeling.
- 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.
- Created a knowledge base of our IT environment to support the team, with hundreds of page views.
- 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.
- Led a Robotics Workshop for middle schoolers, rewriting its curriculum to meet them on their level.

Rock Database Director, Epic Church — 2021-Present

- Maintains 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.
- Managed a team of 4 volunteers & 2 staff members to create tasks, assign tasks, & resolve blockers.

FORMER EXPERIENCE

- Engineer, Lockheed Martin RMS 2014-2018 (Created automation testing software frameworks)
- Student Web Developer, Stockton University 2012-2014 (Created responsive webpages)

EDUCATION

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