Matthew E. Struble

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Skills

Languages: Python, C++, C, SQL, Java, Bash, LaTeX.
Packages: TensorFlow, Keras, OpenCV, NumPy, Scikit-Learn, Pandas, Matplotlib
Applications: AWS, Kubeflow, Docker, Jenkins, Airflow, Jupyter, MATLAB, Git.

Experience

Senior Software Engineer - AI/ML
Nike
Feb 2021 - Present
Boston, MA
- Developed a standardized Python package for AWS, logging, and test reliability, to reduce Data Scientist overhead within Kubeflow environments.
- Lead the initiative to update repositories and defined engineering best practices, reducing development time and increasing CI/CD reliability within Jenkins.
- Onboarded and supported offshore team by running agile ceremonies and creating documentation on engineering standardization, expectations, and software redesign.
- Designed, and implemented, transition from batch file processing to a new API endpoint for forecasting models.

Mission Critical Software Engineer
(Under Contract To) Draper
Mar. 2019 - Jun. 2020
Cambridge, MA
- Developed data analytics tools with machine learning algorithms to assist engineers with hardware analysis.
- Processed system data, sensor data, and real time flight data in order to improve GNC algorithms.
- Took on responsibilities of Scrum Master and led CI/CD initiative.

Senior Software Engineer
(Under Contract To) Raytheon
Oct. 2018 - Mar. 2019
Tewksbury, MA
- Implemented signal processing algorithms and time critical control functions, involved in direct control of sensor systems.

Software Engineer
NetNumber
Jan. 2017 - Oct. 2018
Lowell, MA
- Improved speed, performance, and scalability of signaling routing to fit the needs of customers in emerging markets.

Lead Software Engineer
General Dynamics MS
Aug. 2016 - Dec. 2017
Pittsfield, MA
- Created and maintained software development plan, software design, and software requirement documents.

Projects

Deep Learning Photo Aesthetics: Researched modern classification models, and developed supporting tools, in order to create a novel deep learning model to classify photo aesthetics.

Heineken® AR Cheers Campaign: Created an object detection model on AWS for an adaptive AR experience.

See blog and more projects at mattstruble.com

Education

Georgia Institute of Technology
Atlanta, GA
Master of Science, Computer Science |
Machine Learning, Computational Perception and Robotics

Champlain College
Burlington, VT
Bachelor of Science, Game Programming | *Minor*: Mathematics