

# Matthew E. Struble

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## Skills

**Languages:** Python, C++, C, SQL, Java, Bash, L<sup>A</sup>T<sub>E</sub>X.

**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](http://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