Matthew E. Struble

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Experience

Mission Critical Software Engineer (Under Contract To) Draper
Mar. 2019 - Present Cambridge, MA

- Aggregated multiple flight data sources into one unified database.
- Developed data analytics tools with machine learning frameworks to assist engineers with hardware analysis.
- Processed system data, sensor data, and real time flight data in order to improve GNC algorithms.

Senior Software Engineer (Under Contract To) Raytheon
Oct. 2018 - Mar. 2019 Tewksbury, MA

- Responsible for designing, implementing, debugging, and fixing problems with the Radar software applications.
- Implemented signal processing algorithms and time critical control functions, involved in direct control of sensor systems.
- Worked with Software Architects and Principal Systems, Hardware, and Software engineers to interpret and implement requirements.

Software Engineer NetNumber
Jan. 2017 - Oct. 2018 Lowell, MA

- Implemented and maintained SS7 signaling protocols within product.
- Improved performance and capabilities of signaling routing to fit the needs of customers in emerging markets.
- Autonomously resolved customer support tickets in a timely manner.

Lead Software Engineer General Dynamics MS
Aug. 2016 - Dec. 2017 Pittsfield, MA

- Performed scope and cost analysis for software deliverables.
- Updated low-level C drivers for the electric drive motor on the LSV2 upgrade.
- Created and maintained software development plan, software design, and software requirement documents.

Education

Georgia Institute of Technology Atlanta, GA
Master of Science, Computer Science
Specializations: Computational Perception and Robotics, Machine Learning
August 2017 - December 2019

Champlain College Burlington, VT
Bachelor of Science, Game Programming
Minor: Mathematics
August 2011 - May 2015

Skills

Languages: Java, C++, Python, C, SQL, Bash, LaTeX.
Applications: Tensorflow, OpenCV, MATLAB, Git/SVN, Vi/Vim.

Projects

Heineken Star Experience: Utilized Tensorflow to develop an object detection model and integrated it into an adaptive AR experience for a Heineken promotional event.

Analyzing Climate Change Stance Through Twitter Data: Explored multiple natural language processing algorithms in an attempt to understand – and visualize – Americans' views of climate change over time.