Bryan Barrows

Virginia Beach, VA

-Email me on Indeed: http://www.indeed.com/r/Bryan-Barrows/12f91c82cd8de003

Work Experience

Aerospace Research Engineer

National Aeronautics and Space Administration (NASA) at Langley Research Center, - Hampton, VA January 2018 to Present

- Role: Data scientist, Human-Machine Interaction (HMI) specialist, hazards and feasibili- ty analyst for Advanced Air Mobility (AAM) and Autonomy Teaming and TRAjectories for Complex Trusted Operational Reliability (ATTRACTOR) projects.
- 4 years of experience with machine learning research and development. Topics include: Natural Language Processing (NLP), classic supervised ML (kNN, SVM, Naive Bayes, random forest, decision trees), HMMs, CNNs, RNN/LSTMs, GANs, and transformers.
- 3 years of focused experience with NLP, ensemble supervised machine learning models, automatic speech recognition and machine vision applications.
- Research experiment design, control, data analysis and data publishing.
 National Aeronautics and Space Administration (NASA) Summer Internships and Co-op

Langley Research Center - Hampton, VA (2011 - 2017)

- 2016-2017, Summer: Ensemble supervised machine learning and semi-supervised mod- eling for decluttering navigation display technologies and informing aircraft operations in high-density airspaces.
- 2015, Summer: Developed a machine learning user interface toolbox for automation in- tegration and analysis of pilot flight simulator data.
- 2011-2014, Summer: Multithreaded multi-sensor image fusion prototyping for naviga- tion displays and supervised ML classification of pilot crew state using psychophysiolog- ical sensor data.

Education

Master of Science in Mechanical Engineering

Virginia Polytechnic Institute and State University - Blacksburg, VA December 2017

Bachelor of Science in Mechanical Engineering

Old Dominion University - Norfolk, VA May 2015

Skills

- C
- · Data science
- iOS

- NumPy
- Deep learning
- Visual Basic
- PyTorch
- JavaScript
- Objective-C
- Natural language processing
- Application development
- Computer networking
- Python
- TensorFlow
- Computer operation
- Java
- C++
- CSS
- SciPy
- Google Cloud Platform
- Hadoop
- Mobile applications
- Clustering
- jQuery
- OpenCV
- Machine learning
- HTML5