Colin Versteeg

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Professional Experience

Microsoft — Nov. 2017 - Redmond, WA
Azure Machine Learning Hardware Accelerated Models
Software Engineer

- Launched an industry leading service for acceleration of Neural Networks on Field Programmable Gate Arrays (FPGAs), delivering execution 50 times faster then CPUs, and less than 25% of the cost of GPUs.
- Developed high performance C++ software to operationalize Resnet50 with sub-10ms overhead.
- Integrated the Microsoft internal monitoring system with a gRPC/Tensorflow Serving stack to monitor 800 Windows servers.

Microsoft — Aug. 2016 - Nov. 2017 — Redmond, WA
Machine Learning Server
Software Engineer

- Prototyped initial support for Python in Microsoft R Server as part of a 4-person virtual team, leading to the launch of Microsoft Machine Learning Server.
- Designed and implemented support for Python operationalization in Microsoft Machine Learning Server.

Booz Allen Hamilton — June 2015 - Aug. 2015 — Annapolis Junction, MD
Malware Analysis Intern

- Developed a software prototype to automate creation of a streaming data pipeline for malware analysis using Apache Storm, Java and Python to support 20+ consultants serving government and commercial clients
- Designed and developed data extraction components in a four intern team to expand the initial scope of the project by 25%

Food and Drug Administration — May 2014 - Aug. 2014; Jan. 2015 — Silver Spring, MD
Mathematics and Statistics Trainee

- Selected in a competitive application process to research non-linear metrics to assess image quality in X-ray CT for regulating machine learning advances in iterative reconstruction
- Developed a public-domain software package for easy performance of LROC and EFROC reader studies in Python with NumPy and MATLAB to assist industry in evaluating performance of iterative reconstruction algorithms
- Awarded Oak Ridge Institute for Science and Education fellowship for undergraduate research to fund completion of work.

Food and Drug Administration — May 2013 - Aug. 2013 — Silver Spring, MD
Volunteer Research Intern

- Researched methods to evaluate perfomance of iterative reconstruction algorithms for reducing artifacts in X-ray CT.

Education

University of Maryland — May 2016 — College Park, MD
B.S. *Computer Engineering*; GPA: 3.3

- College Park Scholars Public Leadership honors program — Citation Recieved: October 2014

Leadership Experience

University of Maryland Men's Ultimate — Aug. 2014 - May 2016 — College Park, MD
Co-Captain, B Team

- Collaborated with two co-captains to lead team of 50+ players in 8 hours of weekly practice and monthly competitions.
- Led team to an undefeated season and regional championship.
- Managed team budget of over $5000 for tournament fees and apparel orders

University of Maryland — Aug. 2014 - Dec. 2014 — College Park, MD
Undergraduate Teaching Fellow

- Led weekly discussion section of 12 students and graded student work to teach engineering ethics and professionalism.

Skills

Programming Languages: C++, Python, C♯, R, F♯, Java
Platforms/Technologies: Windows, Linux, .NET Core, gRPC, TensorFlow, Jupyter