

EMPLOYMENT

Synergen Health LLC - Technical Lead, Machine Learning

Colombo, Sri Lanka | June 2017 - To Date

- Designed, implemented, and deployed a denial claim prediction system with above 96% accuracy.
- Designed, implemented, and deployed a revenue forecasting system with better than previously used system.

WSO2 (Lanka) Private Limited - Technical Lead

Colombo, Sri Lanka | Apr. 2014 - May 2017

- Responsible for architecture, design, development and delivery of WSO2 Machine Learning Server.
- Implemented predictive analytics solutions using Machine Learning Server for several customers including United Airline.

Virtusa Private Limited - Senior Software Engineer

Colombo, Sri Lanka | Jan. 2011 - Mar. 2014

- Completed several enterprise web applications using Ektron, Sitecore, ASP.NET, MVC, MS SQL Server, JavaScript and jQuery.
- Reduced the search time of level-crossing data by introducing inverted indexer for the Network Rail's transparency web application.

Creative Search Technologies - Software Engineer

Colombo, Sri Lanka | Oct. 2007 – Dec. 2010

- Developed scalable content extracting crawlers for SharePoint, Lotus Notes, Merideo content management system for the "FAST Search" enterprise search engine.
- Significantly reduced the recovery time by implementing parallel checkpointing and recovery system for SharePoint connector.

EDUCATION

- **Udacity** - Nanodegree Self Driving Car Engineer Oct. 2017
- **Coursera** - Machine Learning Specialization Feb. 2017
- **University of Moratuwa, Sri Lanka** - M.Sc. in Computer Science Mar. 2012
- **University of Moratuwa, Sri Lanka** - M.Sc. in Information Technology Apr. 2011
- **University of Moratuwa, Sri Lanka** - B.Sc. in Engineering Mar. 2004

PROJECTS

Aurora: Deep Learning Library - <https://goo.gl/G7HVkD>

Aug. 2017 - To Date

- Developing a static dataflow graph based deep learning library.
- Aurora comes with many advanced design concepts in deep learning systems such as automatic differentiation, shape inference, and static memory allocation.

Behavioral Cloning - <https://goo.gl/523aYB>

Dec. 2016

- Trained a deep neural network using Keras to autonomously navigate a car in a simulator by predicting steering angles.
- Trained model generalized well and was able to successfully navigate on previously unseen road tracks.

PUBLICATIONS

- U. Bandara and G. Wijayarathna, "Source Code Author Identification with Unsupervised Feature Learning," Pattern Recognition Letters, vol. 34, no. 3, 2013, Elsevier B.V., <https://goo.gl/EGU3Mm>.
- U. Bandara and G. Wijayarathna, "Deep Neural Networks for Source Code Authorship Attribution," 20th International Conference on Neural Information Processing (ICONIP), November, 2013, Daegu, Korea, LNCS Vol 8227, 2013, Springer, <https://goo.gl/a9yu4t>.

TECHNICAL SKILLS

- **Languages:** Java, C#, Python, JavaScript, C++
- **Frameworks/Libraries:** Scikit-Learn, Pandas, TensorFlow, Matplotlib, Keras, Numpy/Scipy, Apache Spark
- **Other:** Eclipse, PyCharm, Visual Studio, MySQL, MS SQL Server, Git, CUDA, cuDNN