

Zeon Trevor Fernando

Leibniz Universität Hannover

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Key Competencies

Information Retrieval, Data Mining, Machine Learning, Web Services

Education

Expected **Leibniz Universität Hannover, Germany**

Master of Science

Winter 2016 *Internet Technologies and Information Systems - Full scholarship, GPA - 1.2/5.0*

2010 - 2014 **Vellore Institute of Technology, India**

Bachelor of Technology Hons.

Computer Science and Engineering, CGPA - 9.1/10.0

Professional Experience

Oct 2014 - **Research Assistant**, *L3S Research Centre*, Leibniz Universität Hannover, Germany

Present

- o Development and maintenance of the collaborative search and sharing platform [LearnWeb](#).
- o Research project on social web archives prototypes to help build your personal archive of web collections and interfaces to explore the same.
- o Mentoring Bachelor Thesis student on topics related to "Open Educational Resources" (Integration of *LORO* to *LearnWeb*) and "Semantic Web" (Development of a generic *SparQL* crawler).

Jan - July **Bachelor Thesis**, *L3S Research Centre*, Leibniz Universität Hannover, Germany with a full scholarship

2014

Mentor: Prof. Dr. Wolfgang Nejdl

- o Developed a REST API to capture and document search processes in keyword based search systems.
- o Designed a search history interface in the LearnWeb platform to help visualize the captured search processes.

May - July **Research Assistant**, *Centre for Scientific and Complex Systems Modeling (SCI-SYM)*, Dublin City University

2012

Mentor: Prof. Heather J. Ruskin

- o Developed an interactive graphical module that generates a network to help understand the correlation between epigenetic and genetic events during the onset of colon cancer.
- o This module was implemented using the framework CytoscapeWeb for the [StatEpiGen Database](#).

Publications

August 2014 **Zeon Trevor Fernando**, I Sumaiya Thaseen, Ch.Aswani Kumar, "**Network attacks identification using consistency based feature selection and self organizing maps**", Published in proceedings of 1st IEEE International Conference on Networks and Soft Computing, India 2014

July 2013 **Zeon Trevor Fernando**, Priyank Trivedi, Abhinandan Patni, Priyal Trivedi, "**DOCAID: Predictive Healthcare Analytics using Naïve Bayes Theorem**", Published in proceedings of 2nd Student Research Symposium, 2nd IEEE International Conference on Advances in Computing, Communications and Informatics, India 2013

Technical Skills

Languages	JAVA, HTML, CSS, JavaScript, Python, C, C++
Frameworks	PrimeFaces, Java Server Faces
Open Source	Lucene, Terrier, Octave, MySQL
Platforms	Windows, Mac OS X, Linux

Key Projects

Master's Research Project	Temporal Diversification of Search Results (In Progress). <ul style="list-style-type: none">Developed ranking algorithms to model four temporal intent classes (Past, Recent, Future, Atemporal) for a given search topic. Also, a ranking model to retrieve a diversified set across all the intents.Made a submission to Temporally Diversified Retrieval Subtask (NTCIR-12 Temporalia 2).
Bachelor's Mini Project	Enhanced ROCK: Improvement to ROCK hierarchical clustering algorithm. The Robust Clustering Algorithm for Categorical Attributes (ROCK) was improved to provide increased purity of 90% in clusters by comparing the inter and intra-cluster goodness measure.
Advanced DBMS	Reverse Query Generation. Developed a system which generates all possible SQL queries from the result and database given as input.
Database Systems	Kd-trees build algorithm using Mathematical Mean. Mathematical mean used for constructing the Kd tree instead of median, which helps produce a balanced tree. This provides faster search and indexing in Kd-trees.

Scholastic Achievements

May 2012	VIT Academic Excellence Award , <i>Ranked 3rd out of 108 for the academic year 2011-2012.</i>
May 2008	National Level - National Talent Search Examination , <i>Among 1% of students from all across India to clear the examination.</i>
March 2008	Database Programming Course , <i>Oracle Academy.</i>

Extra-Curricular Activities

2011-2013	Member , <i>Student Council, VIT University.</i>
2012	President , <i>University GNU/Linux Users Group .</i>
Sept 2012	Chief Organizer and Secretary General , <i>VIT Chennai Model United Nations Conference '12.</i>

Selected Coursework

Computer Science	Algorithm Design and Analysis · Advanced Methods of Information Retrieval · Software Engineering · Temporal Information Retrieval · User Modeling and Personalization · Advanced Database Management Systems · Web Science · Machine Learning(Coursera)
Mathematics	Graph Theory and its Applications · Discrete Mathematical Structures · Applied Probability, Statistics and Reliability · Linear Algebra

References

Prof. Dr. Wolfgang Nejdl, *Director of L3S Research Centre and Professor of Computer Science*, Leibniz University, Hannover

Prof. Heather J. Ruskin, *Professor of Computer Science*, Dublin City University, Ireland