

# Zeon Trevor Fernando

MASTER'S CANDIDATE

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## Education

### Leibniz University Hannover

Hannover, Germany

M.Sc. INTERNET TECHNOLOGIES AND INFORMATION SYSTEMS, GPA: 3.8/4.0 (U.S. SCALE)

2015 - 2017

- Thesis: "Publication Date Prediction in Web Graphs leveraging Web Archives"
- Courses: Information Retrieval, Large Scala Data Mining, Efficient Algorithms, User Personalization & Modeling, Web Science

### Vellore Institute of Technology (VIT University)

Chennai, India

B.TECH (HONS). IN COMPUTER SCIENCE AND ENGINEERING, GPA: 9.1/10

2010 - 2014

- Thesis: "Capturing, Documenting, and Visualizing Search Contexts for building Multimedia Corpora"
- Courses: Algorithm Design & Analysis, Software Engineering, Advanced DBMS, Applied Probability, Graph Theory

## Experience

### L3S Research Center

Hannover, Germany

RESEARCH ASSISTANT

Oct. 2014 - Present

- Research Topics: E-Learning, Information Retrieval, Web Archives
- Development and maintenance of a collaborative search and sharing platform [LearnWeb](#)
- Developed a research prototype [ArchiveWeb](#) to support the collaborative construction and exploration of web archives
- Technologies Used: Java, JSF2.0 + Primefaces, JavaScript/jQuery, AJAX, HTML, CSS, MySQL, Highcharts, RESTful APIs, SVN

### Centre for Scientific and Complex Systems Modeling (SCI-SYM), Dublin City University

Dublin, Ireland

SUMMER RESEARCH INTERN

May - July 2012

- Researched network visualizations to understand the correlation of genetic and epigenetic events during onset of colon cancer
- Implemented an interactive graphical prototype for the [StatEpigen Database](#) to understand these correlations
- Technologies Used: Java, JavaScript/jQuery, PHP, HTML, CSS, MySQL, CytoscapeWeb, XML

## Skills

**Programming** Java, Python, JavaScript, Scala, C/C++, MySQL

**Technologies** Apache Lucene, Hadoop MapReduce, Apache Spark, JSF2.0, Latex, Git/SVN

**Platforms** Windows, Mac OS X, Linux

## Projects

### TEMPORALIA: TEMPORAL DIVERSIFICATION OF SEARCH RESULTS

Developed a ranking algorithm to model temporal intents (past, recent, future, atemporal) as well as to diversify search results across these temporal intents. Used: Java, Lucene, StanfordCoreNLP, RankLib, JSON, LibSVM, Git

### SEARCHLOG REST SERVICE

Implemented a REST API to document and visualize search histories for keyword based search systems.  
Used: Java + Jersey, JSF2.0 + Primefaces, HTML, CSS, Javascript/jQuery, MySQL, SVN, D3.js, Apiary.io

### ENHANCED ROCK: AN IMPROVEMENT TO ROCK CLUSTERING ALGORITHM

Increased cluster purity to 90-93% by comparing inter and intra-cluster goodness measures. Used: Octave

## Honors & Awards

2013-14 **Bachelor Thesis Scholarship**, 2 out of 400 students selected for this award

L3S Research Center, Germany

2011-12 **VIT Academic Excellence Award**, Ranked 3rd out of 108 students

VIT University, India

## Publications

IJDL'17

[ArchiveWeb: collaboratively extending and exploring web archive collections—How would you like to work with your collections?](#) by Zeon Trevor Fernando, Ivana Marenzi, Wolfgang Nejdl.

NTCIR12,'16

[Applying Learning to Rank for Temporal Information Access: L3S at the NTCIR-12](#) by Zeon Trevor Fernando, Jaspreet Singh, Avishek Anand.