

# David Daharewa GUREYA

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**Nationality:** KENYA

## Education

2016 -

**Erasmus Mundus Joint Doctorate in Distributed Computing (EMJD-DC)**

2013-2015

**MASTER DEGREE (MSc) in INFORMATION SYSTEMS AND COMPUTER ENGINEERING, IST, UNIVERSIDADE DE LISBOA, Portugal**

- **courses:** P2P and Overlay Systems, Cloud Computing (DynamoDB, MapReduce, OpenStack, AWS:EC2,EBS,ELB), Parallel and Distributed Computing (OpenMP, MPI), Virtual Execution Environments, Fault-Tolerant Systems, Middleware for Distributed Internet Applications, Mobile Computing (developed distributed multi-player version of the classic Bomberman game for android devices using Wifi Direct technology), Network and Computer Security (developed PGP add-on for MS Outlook).

- **Final Grade:** 17/20

2013-2015

**MSc, Distributed Computing, KTH, Sweden**

- **courses:** Advanced topics in distributed systems, Implementation of distributed systems, Philosophy of science, Scientific writing and communication.

2008 - 2012

**Bachelor of Science, Computer Science, University of Nairobi (Kenya), First Class Honours**

- Final year project: Automatic language identification using N-Gram-Based Text Categorization (Grade: A)

## Work Experience

October 2015 -

**Tutorial Fellow**, School of Computing and Informatics, **University of Nairobi**

- Participation in the fields of teaching, research and development

- **Courses:** Information Systems, Programming Methodology, Computer Network Technologies, Database Systems, Fundamentals of Computing and Networks, Web Content Design and Management

07/2015 - 09/2015

**Research Engineer, Swedish ICT, Kista, Sweden**

- Research: Cloud Computing, Cloud storage, Elasticity controllers, Workload prediction, SLO, Online machine learning, Time series analysis

- Products: **Online ElastMan**, A self-trained Proactive Elasticity Manager for Cloud-based Storage Systems

02/2015 - 06/2015

**Master thesis student, Swedish ICT, Kista, Sweden**

- Thesis Title: **Self-trained Proactive Elasticity Manager for Cloud-based Storage Services**

- Grade: **A**

04/2013 - 08/2013

**Graduate Assistant**, School of Computing and Informatics, **University of Nairobi**

- Participation in the fields of teaching, research and development

03/2013 - 08/2013

**Software Engineer, C4DLab, University of Nairobi**

- Research, Capacity building and training, Design and development (Prototyping).
- Organized and participated in technological boot-camps, workshops, meetups, and seminars within Nairobi
- Involved in developing prototypes, notably among them were Games for Learning (G4L), which were mainly targeting primary school children.

08/2012 - 03/2013

**Software Engineer, Cellulant Corporation, Kenya**

- Requirements elicitation and planning, Solution analysis and design, Products Development and Maintenance. Developed web applications using Yii PHP Framework, MySQL (LAMP), CSS, JavaScript. Also Worked on USSD applications and developed Java daemons for a payments ecosystem.

04/2011 - 07/2011

**Web Developer** (part-time, during UG studies), **KORDA, Kenya**

- Part of a team which created a digital platform for the collation of data on cancer patients from multiple institutions and multiple collaborators in Kenya.
- Gain skills in: Javascript, CSS, HTML, PHP, MySQL.

## Awards

- Erasmus Mundus scholarship (academic-merit based, awarded each semester of MSc)
- Category A Erasmus Mundus fellowship for Erasmus Mundus Joint Doctorate in Distributed Computing (EMJD-DC)

## Skills

- Languages: Java 7, Python, C#, C/C++, HTML, PHP, JavaScript, Matlab, LaTeX, SQL(CQL), shell
- Version control systems: Subversion, Git, Mercurial

## Publications

- **"OnlineElastMan: Self-Trained Proactive Elasticity Manager for Cloud-Based Storage Services"** is accepted and presented at **ICCAC '16!**
- **"Profiling for Asymmetric NUMA Systems"** is accepted and presented at **EuroDW '17!**

## Research Interests

- Distributed Storage Systems
- Autonomic computing in Distributed Systems
- Distributed Algorithms
- High Performance Computing including optimization