Alemnew Sheferaw Asrese

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Education

2014 – expected 2019 **Doctoral Candidate in Networking Technology**, *Aalto University, Finland.*
Dissertation: Quality of Experience (QoE) Inference for Web Applications based upon Active Network Measurement
Advisors: Jörg Ott and Pasi Sarolahti

2011 – 2014 **M.Sc. in Computer Science**, *University of Trento, Italy*, *GPA – 99/110.*
Thesis: Design and Development of Dynamic Fleet Management System Prototype
Advisor: Alberto Montresor

2007 – 2010 **B.Sc. in Information Science**, *Adama University, Ethiopia*, *GPA: 3.9/4.0.*
Thesis: Online Voting System for National Electoral Board of Ethiopia.
Advisor: Belayneh Mengistu

Work Experience

2014 – **Doctoral Candidate & Researcher**, Aalto University, Esooo, Finland.
- Researched factors that affect and measured Web Performance and Quality of Experience.
- Instructed and assisted laboratory lessons of two master level courses.
- Developed Web Performance and QoE measurement tool.
- Performed technical presentations at international conferences and seminars.

2013 – 2014 **Software Developer – Intern**, NEC Laboratories Europe, Germany.
- Designed and implemented algorithms for dynamic fleet management system.
- Designed and implemented a communication platform for electric vehicles by extending the C2X-sdk functionality for vehicle to vehicle and vehicle to infrastructure communication.

Mar – Jul 2012 **Web Developer & Programmer**, GreenPrefab, Rovereto, Italy.
- Designed and implemented a cloud-based solution and web portal for civil engineers and architects to do green building rendering and energy efficiency simulation.

Skills

- Programming in Java, Python, JavaScript, Android, Shell scripting
- Data analysis and visualization in Python
- Good knowledge of computer networks and internet protocol
- Knowledge of virtualisation in docker, and test automation in selenium
- Good technical presentation
- Fluent in English

Selected Projects

- WebLAR: Measuring Web Latency, ATF, and Rendering
- WePR: Web performance and rendering measurement system
- Bilingual Malaria Expert System using Java and HTML
- Library Management System using JEE framework

Selected Publications

- A. S. Asrese, *et. al.* Measuring Web Latency and Beyond: Methods, Tools & Longitudinal Dataset. IEEE TNSM, June 2019.
- A.S. Asrese, *et. al.* Measuring Web Quality of Experience in Cellular Networks. PAM 2019.