

Alemnew Sheferaw Asrese

kirjanpitäjäkuja 4A 15, 02770 Espoo, FI

email: alemnewsh@gmail.com

phone: 0456987878

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Re: Data Scientist

Dear Hiring Manager,

I am Alemnew Sheferaw Asrese, a researcher and doctoral candidate (expected to graduate within 2019) at the Department of Communications and Networking at Aalto University. The **Data Scientist** position advertised in your list of vacancies is very appealing and please accept my letter as the first step in my application for your open position at Efecte. It is my strong belief that my professional expertise and background knowledge will make me a competitive candidate to serve your team at Efecte, for this position.

The extensive career focus over the past 9 years has provided me the opportunities to develop my skills, knowledge, and abilities into career goals. Some of my skills and knowledge are listed below.

- Excellent programming skills in Java, Python, and JavaScript
- Experience in prototyping and development cloud-based application.
- Very good knowledge of Unix shell scripting.
- Very good data analysis and visualization skills using Python.
- Very good knowledge of computer networking and IP protocols.
- Knowledge of machine learning technologies and platforms like Jupyter, Python, SciKit
- Knowledge of relational database
- Knowledge of virtualization technologies such as Docker.
- High research experience in measurement on the Internet and applications.
- Very good communication and presentation skills at conferences, workshops, and seminars.
- Experience in international and national research projects.
- Highly analytic, problem-solving mindset, and a continuous learner.
- Strong teamwork spirit and collaborative work attitude.
- International research experience at INRIA-Paris, Simula, NEC Labs, Technical University of Munich.
- Adaptive to a dynamic work environment.
- Fluent in both spoken and written English.

I am interested in and enthusiastic in Data Science and Machine Learning. In my job search, I give priority to reputable, international, innovative and supportive companies and organizations to utilize my knowledge as well as grow as a professional.

I have attached a copy of my resume for your consideration. Should you need any further information on this application, please do not hesitate to contact me. I would also appreciate to meet with you and discuss my application. I am confident that I will be an asset for Efecte as a member of your team. I am looking forward to hearing from you.

I thank you for your time and consideration.

Sincerely yours,

Alemnew Sheferaw Asrese

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Education

- 2014 – **Doctoral Candidate in Networking Technology**, *Aalto University, Finland*.
expected 2019 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, Espoo, 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
- Machine learning, data analysis and visualization in Jupyter, Python, SciKit
- Good knowledge of computer networks and internet protocol
- Knowledge of relational database systems
- 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.