

Afshan Aman

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Work Experience

May 2012 – to Date**New York University AD****Abu Dhabi, UAE**

I am currently working as a Software Engineer/Research Associate at the Center for Technology and Economic Development (CTED: <http://www.nyucted.org>) at New York University Abu Dhabi. Our focus of research is in the area of utilizing technology for economic development of the under-developed areas in Africa, mainly in the fields of agriculture and food production, and mobility of goods. As a lead technology and solution developer and data analyst for several projects, I work with a vast array of Engineering, Statistical and Geo-spatial computer applications and software packages. I manage the acquisition of large sized statistical, economical, and spatial data using Android devices and Web interfaces, as well as analyses, visualization and report generation of said data using Web interfaces, STATA®, MATLAB®, and ArcGIS®. I also design and develop dynamic Web-based analysis tools for spatial data provided by stakeholders or collected by team members in the field.

Specialties: Matlab, Stata, Databases, GIS, Android Application Development, Web Development, Amazon Web Services (Lambda, DynamoDB, CloudWatch)

- Working on analysis of large sized statistical, financial and economical, and spatial data using STATA, MATLAB, and ArcGIS.
- Developing Android applications for spatial data collection in the area of agriculture and food transportation.
- Developing dynamic Web Applications using Javascript/PHP/Node.js for analysis of the GPS data from Android devices.

Research and Development Experience

Jan 2010 – April 2011**Faculty of Engineering, University of Porto****Oporto, Portugal**

- Worked as a researcher in the field of Urban and Regional Transport Systems and Planning, studying the retail locations of selected sectors in the city of Oporto using spatial analysis and GIS for identifying interesting patterns and discovering and testing hypothesis.

April 2008 – Oct 2008**RWTH Aachen University, Germany****Aachen, Germany**

- Developed a Web Portal for Conference registration and private and protected data management for the registered users using CSS, PHP and MySQL on Apache Server.

Jan 2004–Sep 2004**United Nations Development Program****Peshawar, Pakistan**

DCIC Manager / IT Coordinator

- Managed the development of Provincial Government Web Portal and establishment of District Citizen Information Centers (DCIC).
- Supervised the construction and renovation work for establishing the DCIC. Handled all correspondence with contractors.
- Supervised regular data collection, processing, analysis and dissemination of information at district level
- Handled Procurement activities for different sub-offices, developing IT related specifications, inviting and finalizing tenders and issuing inspection reports as a subject specialist.

- As part of a team of experienced statisticians and ICT specialists and young professionals, identified information needs of the DCIC project, designed a system, using ICT (Information and Communication Technologies) for improved transparency and accountability of state functionaries and access of citizens to information.

Teaching Experience

2005- 2006 **COMSATS Institute of Information Technology** **Islamabad, Pakistan**

Lecturer

- Performed different Academic, Research & Administrative duties in relation to under-graduate university level students.

Dec 2011 – April 2012 **Higher Colleges of Technology** **Abu Dhabi, UAE**

Adjunct Faculty

- Corporate Trainer for Telecommunications, Computer Skills and Mathematics for Engineers and Business, preparing corporate students to improve their e-skills and performance in the work place.

Education

MSc, European Master in Informatics (EuMI) **Germany/Italy** **2006 - 2008**

- A double-degree Master's program from two lead European universities of RWTH Aachen, Germany and University of Trento, Italy
- Specialization: Embedded Systems Informatics.
- Thesis Title: '**Efficient implementation of a simple platoon controller using a rapid control prototyping system**' which, simply put, is a longitudinal cruise controller, but in the context of a group of vehicles travelling together over a longer distance, such as a platoon of Cargo trucks.

BSc, Computer Information Systems Engineering **Pakistan** **2000 - 2004**

- 4-year Bachelor degree from University of Engineering & Technology Peshawar, Pakistan
- Overall 4th Position with 3.89 / 4.0 CGPA.
- Received university's merit scholarship 4 times.

Language Proficiencies

Main Language

English

Mother Tongue

Urdu, Pushto

Others

German, Italian, Arabic

Hobbies and Interests

Woodwork, Traveling & Motorcycle Touring, Computer Gaming

Publications

1. '[Experiences in designing a mobile GIS mapping tool for rural farmers in Ghana](#)'. Proceedings of the 4th Annual Symposium on Computing for Development, 28:1-28:2 (2013)

Portfolio

<https://afshanaman81.github.io/index.html>

References

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