

FIRAS AL-DOUGHMAN

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EDUCATION

PhD in Engineering and Information Technology
University of Technology Sydney

- Dec. 2015 - Dec. 2019 Sydney, Australia
- Title: "CONSENSUS-BASED DATA MANAGEMENT WITHIN FOG COMPUTING FOR THE INTERNET OF THINGS"
 - Supervisors: Zenon Chaczko & Wayne Brooke
 - Thesis area: IoT, Fog Computing, Data Management and Machine Learning

Master Degree in Computer Engineering
Al-Nahrain University

- Sept. 2005 - Apr. 2009 Baghdad, Iraq
- Thesis Title: " Design and Implementation of FPGA Download Interface"

Bachelor Degree in Computer Engineering
Al-Nahrain University

- Sept. 1999 - Sept. 2003 Baghdad, Iraq

EXPERIENCE

Graduate Researcher
University of Technology Sydney

- Jul 2015 – Dec 2019 Sydney, Australia
- Project: Fog Computing Data Management in IoT
 - Duties:
 - Developed materials and methods for data collection and analysis.
 - Investigated and developed machine learning algorithms for managing Fog environment data within IoT.
 - Design and development of environment monitoring test-bed using embedded platforms including Raspberry Pi and Texas Instruments SensorTags.
 - Conduct statistical analyses of data sets
 - Developed an algorithm that construct collaborative decision making within IoT using analytical techniques.
 - Proposing and implementing Deep Learning models (LSTM) for Daily Life Activities (DLA) recognition in smart homes.
 - Performed data analysis of the results obtained from various experiments and presented them in form of graphs.
 - Designed and created a scientific posters and papers presented at various conferences and seminars.

IT and Data Analysis Administrator
Hala Communications

- Feb 2004 – Feb 2015 Baghdad, Iraq
- Analyze market-related data, extract desired statistics and evaluate market status using Excel.

ABOUT ME

"Enthusiastic, self-motivated re-researcher with 4+ years of experience leveraging Data Science techniques to analyse data and perform complex studies, specifically in IoT networks. Articulate in communicating complex ideas to others, including teaching multiple courses at UTS. Professional activities include serving as Residential Networker and IEEE Student Branch Chairman"

MOST PROUD OF

- Courage I had to take a sinking ship and try to make it float
- Persistence & Loyalty I showed despite the hard moments and my willingness to stay with my Careers in IT, Research and Teaching

SKILLS

- empirical research Networking
- Data Science Data Analysis
- Project Management Teaching
- Graphic Design Wireframing
- Sales Management Event Planning
- Python C++ MATLAB VHDL
- Corel Draw Adobe Photoshop LaTeX
- Adobe Dreamweaver Sketch IoT
- Leadership Teamwork Diligence
- Cross-Culture Communication
- Quality Analysis Customer Service
- Problem Solving Critical Thinking
- Attention to Detail Adaptability
- Moderation Willingness to Learn
- Cultural awareness confidentiality
- Work Independently
- business development

- Researching, analyzing, evaluating and monitoring network infrastructure to ensure networks are configured to operate at optimal performance.
- Monitoring network traffic, and activity, capacity and usage to ensure continued integrity and optimal network performance.
- Maintaining network functionality and evaluating performance in existing sites along with being responsible for maintaining the central site system (headquarter) serving about 100 employees.
- Designing and leading the initial operation of four other sites in the capital city.
- Assigning privileges and providing training and support for new system users.
- Planning, setting specifications, development, and installation of complete IT infrastructure for new sites. This includes handling the purchase of hardware components (from PC and workstations to Server racks, switches and routers) and software systems (operating systems and application software).
- Prepared the Business Plan for the Company for the years from 2005 to 2010.
- Leading the planning and deployment of "etopup" Point of Sale system by being responsible for deploying the system, putting it in action and providing technical support for network issues.

Tutor UTS

📅 Jul 2017 – present

📍 Sydney, Australia

- Deliver tutorials about Technology Research Preparation (TRP) (2017-2019), Network Fundamentals (2018-2019), Security Fundamentals(2019), the Internet of Things (2018-2019), Image Processing and Pattern Recognition (2019).
- Develop critical thinking through inquisitive discussions.
- Connect with students on a technical and collaborative level enabling them to generate more interest on the course material.
- Pitch new ideas for projects and case studies, promote group activities on latest tech trends and scientific problems to create ideas.
- Examining and exploiting flawed software routines using C Programming in Linux environment.
- Analyse various components of the Internet to select the most appropriate network services including protocol layering and service models.
- Examine and explain end-to-end packet delivery throughout the network system to gain insight into the behaviour of the Internet.
- Differentiate between acceptable and unacceptable aspects of system design that affect or compromise security principles by assessing code.
- Explain an integrated, multidisciplinary approach for IoT based solutions, and apply it to real-world scenarios.
- Explain the principles of sensing/actuation, data transmission and processing, visualisation and analytics, as well as, cybersecurity issues in IoT.
- Use foundational techniques of image processing and analysis such as filtering, segmentation and local features to solve image processing problems of real world application.
- Use image processing and pattern recognition techniques to detect objects and activities in images and video.

Assistant Lecturer

Staff Development center (SDC)

📅 May 2010 – Feb 2015

📍 Baghdad, Iraq

- Prepare and deliver lectures for the training programs according to advanced teaching methodologies.
- Managed some of the training programs which held by the IT group of SDC.
- Instructing and assisting labs during some programs.
- leading and performing Computers and IT maintenance department.
- Appointed to several Procurement committees as a team leader.

ACTIVITIES

UTS IEEE Student Branch Chairman 2019

📍 Sydney, Australia

Residential Networker (RN) at UTS Housing and Senior RN for 2017

2016-2019

📍 Sydney, Australia

Student Helper at UTS:Insearch 2015-2019

📍 Sydney, Australia

CERTIFICATIONS

CCNA1 instructor	●●●●●●
What is Data Science?	●●●●●●
Python for Data Science and AI	●●●●●●
Databases and SQL for Data Science	●●●●●●
Data Analysis with Python	●●●●●●

LANGUAGES

English	●●●●●●
Araic	●●●●●●

A DAY OF MY LIFE

