Wissam Fawaz, PhD

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COMPUTER SKILLS

Languages: Java, C++, JavaScript, C, and Python

EXPERIENCE

Professor of Computer Engineering (Research and Development) September 2006 - Present
Lebanese American University (LAU)

- **Designed and developed** a **C++ based** optical network simulator
    - to validate a novel quality-of-service based protection scheme for optical networks
    - resulting in the publication of 8 journal papers in top publication venues
    - that scored hundreds of citations from scientists in the optical networks area
- **Designed and developed Java based** simulators
    - for Vehicular Ad-hoc Networks (VANETs) and Free Space Optical Communication (FSO) systems
    - to improve connectivity between the various communicating nodes
    - enabling the publication of 15 journal papers in top publication venues
    - these publications garnered hundreds of citations from other relevant studies in the FSO and VANETs areas as confirmed by https://scholar.google.com/citations?user=3o50cnIAAAAJ&hl=en&oi=ao
- **Supervised** 40 undergraduate students in their final year projects that involved using:
    - **Flutter, Node.js, Unity, MongoDB, MySQL, and React Native**
    - To develop web-applications and mobile applications
    - That help solve pressing real-world problems ranging from improving the well-being of Alzheimer patients to locating victims in the aftermath of explosions such as the Beirut port explosion
- **Taught and continuously developed** from scratch 3 major software development courses:
    - **Java programming**, **data structures and algorithms**, and **android application development**
    - These courses enabled my students to secure software development engineering jobs at many national/international companies, such as Google, Amazon, Facebook, and Apple.
- **Published** 30 journal as well as 15 conference papers (https://dblp.org/pid/98/6382.html)
- **Entrusted** by many students to coach/prepare them for the Lebanese Collegiate Programming Contest (LCPC)

EDUCATION

University of Paris 13, France 2002 – 2005
- PhD degree in Computer Engineering

University of Paris 6, France 2001 – 2002
- MS degree in Computer Engineering

Lebanese University, Beirut, Lebanon 1996 – 2001
- BE degree in Computer Engineering

HONORS AND AWARDS

Best innovative capstone design project 2019

- Project titled "Safe Alzheimer Friendly Environment" won among 10 participating projects the best innovative development project award granted by Murex, a Lebanese software development company

Senior member of the Institute of Electrical and Electronics Engineer (IEEE) 2012

- Was elevated to the rank of senior member of the IEEE in recognition of my active participation in research related to VANET and optical networks.

Fulbright research award 2008

- Selected to be the recipient of a Fulbright research award that allowed me to spend 5 months as a Fulbright visiting scholar at North Carolina State University, USA