

# MAMDOUH ALENEZI, PhD

Prince Sultan University | College of Computer and Information Sciences

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## Academic/Education Administrator | Promoting Comprehensive Educational Programs Through Data-Driven, Evidence-Based Decision Making

- ✦ **Consultancy Work:** Visionary, Analytical, and Innovative Academic/Education Administrator with a legacy for providing expert advice for academic institutions on technologies and their impacts.
- ✦ **Educational Expertise:** Diversely experienced professional adept at all facets of educational administration, teaching, research, professional development, academic services, and community engagements.
- ✦ **Data-Driven Decision Making:** Proven ability to maximize quality of academic programs through metric-driven strategic plans, program management, and course developments.
- ✦ **Institutional Research:** Proficient in steering research-based activities among students and institutions to create the foundation for major advances in diverse areas within education, including sciences, technology, and data.

## EDUCATION

- Ph.D. Software Engineering** | North Dakota State University – Fargo, ND **2014**  
Thesis: “A New Coupling Metric: Combining Structural and Semantic Relationships”
- M.S. Software Engineering** | DePaul University, Chicago, IL **2011**
- B.S. Computer Science** | Prince Sultan University, Riyadh **2010**

## PROFESSIONAL EXPERIENCE

### PRINCE SULTAN UNIVERSITY – *Riyadh, Saudi*

#### Dean of Quality Assurance and Development

Sep 2020 – Present

- Coordinate all activities relating to assessment and enhancement of academic programs and non-academic services impacting student welfare.
- Leverage strategic decision-making to maximize quality of academic programs based on intended learning outcome assessments.
- Direct the Office of Quality Assurance and Development by establishing data-driven standards and measurement methods; serve as the quality assurance auditor for the University.
- Manage and follow up with the university strategic plan by providing progress reports, strategy adjustments, and closing plans and corresponding projects.

#### Professor (Department of Software Engineering)

Nov 2022 – Present

#### Associate Professor (Department of Software Engineering)

Dec 2018 – Nov 2022

#### Assistant Professor (Department of Software Engineering)

Sep 2014 – Dec 2018

- Contribute to developing, planning, and implementing a high-quality course curriculum and outlines; design student-centered course and lesson plans.
- Carry out research in areas of specialization by writing grant proposals and publishing and disseminating research results to create and enhance knowledge.
- Mastermind innovative methods of delivering course instructions, peer review research, and distance learning to students.
- Mentor students and keep them close during their study, coop period, and after graduation.

#### Dean of Educational Services

Sep 2018 – Aug 2020

- In charge of conducting students orientation for newly enrolled students by informing them about bylaws, services, and best practices to pass their preparatory year.
- Enhanced campus-wide teaching and learning environment through visionary leadership and support to educational developments and best practices within the faculty.
- Intensified oversight exercises on educational services to improve academic support activities, including semesterly knowledge assessments and yearly course placements.
- Liaised with the Vice President for Academic Affairs, Dean of Admission and Registration, and Academic Deans on enrollment, retention, completion, success, institutional research, and academic student conduct.
- Ensure the mapping between preparatory year courses and university requirements with program learning outcomes and institutional learning outcomes.

**Chief Information & Technology Officer** **Sep 2016 – Aug 2019**  
**General Supervisor of Information Technology & Computing Services** **Mar 2016 – Aug 2016**

- Drafted and executed the smart campus plan by integrating best digital transformation practices and emerging technologies.
- Implemented new and existing technology, systems, and applications for the continuous support of academic operations, resulting in improved student success.
- Directed the Information Technology Services Division by developing and articulating a clear vision of technology uses and benefits to the entire University.
- Led the efforts to implement an ERP system for HR, accounting, and financing departments at the university.
- Developed a continuous information technology planning process to serve faculty, staff, students, and the community.

**Chairman of the Department of Computer Science** **Sep 2015 – Aug 2016**

- Channeled leadership efforts towards optimizing instructional programs and curricula innovation to expand course and degree offerings.
- Managed the department, enforcing unity among staff as well as students and introducing academic programs to ensure maximum student success.
- Revamped the offered courses to align them with IEEE, ACM, and ABET curricula guidelines.
- Seek feedback from alumni employers to integrate their feedback into the curricula.

### EDUCATIONAL DEVELOPMENTS

**New Course Developments – SE 411:** Software Construction | **SE 311:** Software Requirements Engineering | **SE 415:** Group Dynamics & Professional Practice | **SE 489:** DevOps Engineering | **CYS 402:** Secure Software Engineering

**Master Degree Curriculum Development – MS in Software Engineering | MS in Cybersecurity Engineering Program**

**Service and Administration (Committee) – University level Examination | PSU Institutional Policy | Institutional Strategic Planning | ABET Steering | Institutional Technology and Quality | Institutional Executive Research**

**Master Thesis Committee**

A Context-Aware Personalization Model for Augmented Reality Applications  
 User Experience Dimensions, Aspects, and Measures: Systematic Literature Review  
 Software Architecture Stability Evolution in Open-Source Object-Oriented Systems

### TEACHING EXPERIENCE

**Prince Sultan University** **2014 – Present**

- Delivering lectures, supervising dissertations, and assisting with student assessment in the following courses.
  - SE 201: Introduction to Software Engineering
  - SE 211: Software Construction
  - SE 311: Software Requirements Engineering
  - SE 322: Software Design & Architecture
  - SE 353: Building Secure Software Systems
  - SE 401: Software Quality Assurance & Testing
  - SE 415: Group Dynamics & Professional Practice
  - SE 489: DevOps Engineering

**Gifted High-school Students | Mobile Development using Visual Studio** **2009**

### CONSULTANCY & FUNDING EXPERIENCE

**Semi-Government Software Development Company** **2019**

- Ran a software process improvement initiative to speed up and optimize the development.  
**Result 1:** Standard CMMI Appraisal Method for Process Improvement.  
**Result 2:** 9 recommendations to improve the team performance and increase the quality.

**King Abdulaziz City for Science and Technology (KACST)** **2017**

- Architected a Dynamic Capacity Provisioning in a Cloud-Based Network.  
**Result 1:** Solved the challenge of resource allocation.  
**Result 2:** Handled advanced and online reservation resource requests. (163,200 SAR).

**Major Saudi Telecom Company** **2016**

- Led a medium-sized project investigating root-cause reasons for a high percentage of repeated tickets.

**Result 1:** Reduced repeated tickets

**Result 2:** Improved field operations performance

### **National Information Solutions Cooperative (NISC)**

2013

- Transformed the billing management system of Walmart to a web service.
- Result:** Helped Branch managers access utility bills on their mobile devices

### **Wisconsin Falconers Association**

2011

- Building a reservation system for visitors.
- Result:** Attracted thousands of foreigners/tourists interested in ornithology.

## **PROFESSIONAL ASSOCIATIONS**

### **Conference Chair**

- 5th International Symposium on Data Mining Applications (SDMA2018)
- 6th International Conference on Data Science and Machine Learning Applications (CDMA 2020)

### **Program Committee Membership**

- Workshop on Machine Learning for Predictive Models (MLPM 2014), 13th IEEE International Conference on Machine Learning and Applications (ICMLA 2014).
- International Conference on Computing and Informatics (ICOCI 2015).
- The Third Information Systems International Conference (ISICO 2015).
- The Tenth International Conference on Software Engineering Advances (ICSEA 2015).
- International Conference on Computing Education and Information Technology (ICCEIT 2015).
- Workshop on Machine Learning for Predictive Models in Engineering Applications (MLPMEA 2015), 14th IEEE International Conference on Machine Learning and Applications (ICMLA 2015).
- International Conference on Computing Education and Information Technology (ICCEIT 2015).
- The 7th International Conference on Information and Communication Systems (ICICS 2016).
- The 4th Symposium on Data Mining Applications (SDMA 2016).
- The 4th Saudi International Conference on Information Technology, Big Data Analysis (KACSTIT 2016).
- The Eleventh International Conference on Software Engineering Advances (ICSEA 2016).
- Special Session: Machine Learning for Predictive Models in Engineering Applications, The 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019).

## **RESEARCH SERVICES**

### **Reviewer of International Indexed Journals**

- International Journal of Cloud Applications and Computing (IJCAC)
- KSII Transactions on Internet and Information Systems
- Journal of Ambient Intelligence and Humanized Computing
- International Journal of Software Engineering and Knowledge Engineering
- Information and Software Technology
- Journal of Information Security and Applications
- ACM Computing Surveys
- Education and Information Technologies

### **Master Students Supervision**

- Hussain Alshehri - Internet of Things - Architecture of Multiple Sources Data Acquisition Sensors
- Sultan Alotaibi - An exploratory study of DevOps Awareness and Adoption in Saudi Arabia
- Abdulrahman Asiri - Cloud-based Cross-enterprise Imaging Framework
- Thamer Alhamed - Measuring the Capability of Business Continuity Management & Disaster Recovery in the Kingdom of Saudi Arabia ICT Companies
- Turki Alshammary - Software Architecture Understandability in Object-Oriented Systems
- Hassan Al-Mousa - Software Architecture Stability Evolution in Open Source Object-Oriented Systems
- Laila Al-Rowais - Framework for Security Testing of Web Applications
- Khawlah Alomar - Static Analysis of Open-Source Web Applications