**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