
Abdulkarim Abdu Ali Malkadi

Jazan, Saudi Arabia

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Education

- 2023 **Florida State University** Tallahassee, FL
Doctorate of Philosophy: Computer Science
- System Administrator of the research lab (Serenelab)
- 2018 **Florida State University** Tallahassee, FL
Master of Science: Computer Science
- 2016 **INTO - University of South Florida** Tampa, FL
Academic English - Superstar Academic Achievement Award
- 2013 **Jazan University**
Bachelor of Science: Computer Science

Experience

- 2013 - Current **Jazan University**
- Teaching Experience**
- Taught various undergraduate courses, including:
 - Programming I, Programming II, Object-Oriented Programming (OOP)
 - Web Programming, Introduction to Computer
 - Enterprise Application Development
- Student Supervision**
- Supervised students in the summer training program.
 - Supervised several graduation projects
 - Mentored students whose project won 1st place in the CS Department Graduation Project Competition (2023—2024, Term 3).
- CS Lab Committee Head (2023—2024, 2024—Present)**
- Major improvements were made to the labs during this period.
 - Led the digital transformation of lab management by implementing Kanban-based management and integrating it with Discord Server.

Other Experience

- Part-time job in Al-Dheya Computer Center - 2006:
 - Sales and Maintenance - 9 Months.
- Worked freelance as a soccer match reporter with RTSportscast.com - 2 Years
- Started a small Internet service provider business - 2009:
 - Covered 3 small towns via Wi-Fi for 5 years.
 - Over 75 clients.
- Started a software development company with a fellow classmate:
 - Completed three programming projects in the period of 4 months.

Publications

- 2023 **Malkadi, A.**, Tayeb, A., Haiduc, S. (2023). Improving code extraction from coding screencasts using a code-aware encoder-decoder model. In the 38th IEEE/ACM International Conference on Automated Software Engineering (ASE 2023). Luxembourg. **Core Rank: A***
- 2020 **Malkadi, A.**, Alahmadi, M., Haiduc, S. (2020). A Study on the Accuracy of OCR Engines for Source Code Transcription from Programming Screencasts. In 17th International Conference on Mining Software Repositories (MSR ' 20). Seoul, Republic of Korea: ACM. **Core Rank: A**
- Alahmadi, M., **Malkadi, A.**, Haiduc, S. (2020). UI Screens Identification and Extraction from Mobile Programming Screencasts. In 28th International Conference on Program Comprehension (ICPC' 20). Seoul, Republic of Korea: ACM. **Core Rank: A**
- Alahmadi, M., **Malkadi, A.**, Haiduc, S. (2020). GUI-focused Overviews of Mobile Development Videos. In 42nd International Conference on Software Engineering Companion (ICSE ' 20 Companion). Seoul, Republic of Korea: ACM. **Core Rank: A**
- Alahmadi, M., **Malkadi, A.**, Parajuli, B., Hassel, J., Haiduc, S., & Kumar, P. (2020). Code Localization in Programming Screencasts. Empirical Software Engineering, 25(2), 1536-1572. **Core Rank: A**
- Alahmadi, M., Tayeb, A., **Malkadi, A.**, Parra, E., & Haiduc, S. (2020). UIScreens: Extracting user interface screens from mobile programming video tutorials. In Proceedings of the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (pp. 1660-1664). **Core Rank: A**

Skills

- Programming Languages:

Python, Java, C#, C++, Qt C++, PHP, ASP.NET, Visual Basic

- Web Development & Scripting:

JavaScript, HTML, CSS, XML, Flask, Bootstrap

- Databases & Search Technologies:

MySQL, Microsoft SQL Server, SQLite, Apache Solr (Search Engine)

- Networking, System Administration & Virtualization:

* Linux System Administration (User Management, Security, Shell Scripting, Automation)

* Network Design & Configuration, MikroTik Routers & Wireless Networking

* Server & VPS Management (SSH, Server Setup, Security)

* Virtualization Platforms: VMware, Proxmox

- Automation & Bots:

* Automation & Scripting (Bash, Python, Web Scraping)

* Telegram & Discord Bots Development

* API Development & Integration (ChatGPT, Web APIs)

- IoT & Embedded Systems:

Arduino Programming, SmartLife API & IoT Device Integration

- Languages : Arabic (Native), English (Fluent)