ABDULAZIZ ALABOUDI

http://mason.gmu.edu/~aalaboud ⋄ aalaboud@gmu.edu

Department of Computer Science

George Mason University, 4400 University Drive

I build software tools to help developers be productive. I collect quantitative and qualitative data and use data science tools and techniques to extract insights about developers' needs. My work has been shared and discussed in professional forms and academic seminars.

EDUCATION

George Mason University, USA, Department of Computer Science
Ph.D. in Information Technology, Concentration: Software Engineering   *August 2017 - Present*
-*Advisor: Thomas D. LaToza*
Master of Science in Software Engineering (with distinction)   *August 2014 - May 2016*

King Saud University, KSA, Department of Software Engineering
Bachelor of Science in Software Engineering (with honors)   *August 2008 - August 2012*

WORK EXPERIENCE

Graduate Research Assistant   January 2018 - Present
Developer Experience Design Lab (DevX), George Mason University

Graduate Teaching Assistant   August 2017 - January 2018
Computer Science Department, George Mason University

Faculty Teaching Assistant   October 2012 - August 2017
King Saud University

Intern, Software Quality Engineer   May 2012 - August 2012
National Information Center (NIC)

PUBLICATIONS

Abdulaziz Alaboudi and Thomas D. LaToza. Rethinking Debugging And Debugger. Annual Workshop on The Intersection of HCI and PL (PLATEAU 2021), 9 pages.

Abdulaziz Alaboudi and Thomas D. LaToza. Edit-Run Behavior in Programming and Debugging. IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2021), 10 pages. ***Best Paper Award!***

Abdulaziz Alaboudi. Helping Developers Find and Share Debugging Hypotheses. IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2020), 2 pages.

Abdulaziz Alaboudi and Thomas D. LaToza. Using hypotheses as a debugging aid. IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2020), 9 pages.

Abdulaziz Alaboudi and Thomas D. LaToza. An exploratory study of live-streamed programming. IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2019), 9 pages.

Abdulaziz Alaboudi and Thomas D. LaToza. Supporting software engineering research and education by annotating public videos of developers programming. Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2019), 2 pages.

RESEARCH PROJECTS

Interactive-coding
Github: `https://github.com/Alaboudi1/Interactive-coding`
An online JavaScript editor that randomly generates unite tests (Fuzzy testing) for your functions through interactive and intuitive interface. These tests are constantly running on separate threads, providing real time feedback on which test cases are passing or failing as you write code.

Quoridor
Github: `https://github.com/Alaboudi1/Quoridor`
An online game that implements end-to-end security measurements against potential cheating attacks.

Observe.dev (Ongoing)
Github: `https://github.com/devuxd/observe.dev`
Observe.dev is a platform for researchers and educators to share videos with special annotations.

Hypothesizer (Ongoing)
Github: `https://github.com/devuxd/Hypothesizer`
A chrome devtools extension that analyzes the source code and offers a list of potential hypotheses about what might cause the defect to occur.

Arabjs (Ongoing)
Github: `https://github.com/ArabJs/arabJs`
A light weight transpiler that enables developers to write JavaScript syntax in Arabic.

FORMAL PRESENTATIONS

Rethinking Debugging And Debugger
-PLATEAU 2021, Carnegie Mellon University, Pittsburgh PA, USA.
-Software Engineering Seminar, George Mason University, Fairfax, VA, USA.

Edit-Run Behavior in Programming and Debugging
-VL/HCC 2021, Washington University, St. Louis, Missouri, USA, Online (COVID-19).
-Software Engineering Seminar, George Mason University, Fairfax, VA, USA.

Using Hypotheses as a Debugging Aid
-VL/HCC 2020, Victoria University of Wellington, Dunedin, New Zealand, Online (COVID-19).

Helping developers find and share debugging hypotheses
-VL/HCC 2020, Victoria University of Wellington, Dunedin, New Zealand, Online (COVID-19).

An Exploratory Study Of Live-Streamed Programming
-VL/HCC 2019, University of Memphis, Memphis, Tennessee, USA.
-Software Engineering Seminar, George Mason University, Fairfax, VA, USA.

Supporting Software Engineering Research And Education By Annotating Public Videos Of Developers Programming
-CHASE 2019, Montreal, QC, Canada.

AWARDS AND HONORS

IEEE VL/HCC 2021 Best Paper Award

Phi Beta Delta International Honor Society

First place at PatriotHacks Hacathon 2019, Informed Xp track

2014-2016 George Mason University (Distinction, class rank: 2nd)

2007-2012 King Saud University (Honors, class rank: 2nd)

STUDENTS ADVISED

Ryan Kim, BS in CS student, Brown University

Saigautam B, BS in CS student, Georgia Tech

Kevin M, BS in CS student, Princeton University

Saurabh Purkar, MS in CS student, George Mason University

Madhav Shroff, MS in CS student, George Mason University

ONLINE PRESENCE

Twitter: @Aalaboudi1 (Arabic), @Alobodi1 (English)

GitHub: `https://github.com/Alaboudi1`

SoundCloud (Podcast): Software Engineering in Ten Minutes (Host, Arabic)
`https://soundcloud.com/abdulaziz-alaboudi`