MEHDI AMHMUD
Web developer

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🌐 https://mehdimahmud79.github.io/ProfessionalPortfolio

📍 Birmingham, Halesowen, B63 2TQ

A B O U T M E

Full-stack developer with a passion for coding and problem solving situated in Birmingham. I hold a PhD in applied mathematics from University of Birmingham. Experience in doing researcher, teaching, IT, and professional video editing.

Linkedin
https://www.linkedin.com/in/mehdi-mahmud/

GitHub
https://github.com/mehdimahmud79

R^G ResearchGate
https://www.researchgate.net/profile/Mehdi-Mahmud

EDUCATION

UNIVERSITY OF BIRMINGHAM
[2015-2020]
PhD applied Mathematics

UNIVERSITY OF BIRMINGHAM
[May2021-Nov2021]
Certificate in Full Stack web Development from (Currently working towards)

UNIVERSITY OF Salahaddin-Iraq/Erbil
[2007-2009]
Msc. applied Mathematics

UNIVERSITY OF Salahaddin-Iraq/Erbil
[1998-2002]
Bsc. Mathematics

OBJECTIVES

A skilled programmer can adapt to all stages of advanced programming. Capable of coding, user interface, testing, and debugging procedures. Full-stack developer with a passion for coding and problem solving situated in Birmingham. I hold a PhD in applied mathematics from the University of Birmingham and since 2001, I have been experienced in doing research, teaching, IT, and video editing. Currently expanding my expertise by enrolling in an intense Full-Stack Bootcamp at the University of Birmingham, which will be completed in November 2021.

✓ TECHNICAL SKILLS

Web Languages / Technologies used

• HTML• CSS• JavaScript • jQuery • Express.js • Sequelize • Handlebars • Node.js • Jest • GitHub • Tailwind • Bootsraps •Express Sessions

Languages / Frameworks Learning

• React • MongoDB •Passport

Other programming Languages

• Fortran • Matlab • VisualBasic

IDE/ Tools

• VS Code • Insomnia • Notepad++

OTHER SKILLS

• Microsoft Office • Adobe Premier • 3D Software(Abaqus)

✓ PROJECTS

Movie Time
https://movietimeuk.herokuapp.com/

Employee Tracker
https://mehdimahmud79.github.io/Employee-Tracker/

Weather Dashboard
https://mehdimahmud79.github.io/WeatherDashboard/

Find all of my projects at:
https://mehdimahmud79.github.io/ProfessionalPortfolio

EXPERIENCE

Research Fellow/University of Birmingham
Sep 2019- 30th May 2021
Research project: Maximising cavitation to clean dental implants, EPSRC Grant

University of Birmingham
2015-2019
Teaching assistant- part time- during my PhD study.

Ass.Lecturer/ Sallahaddin Uni./Erbil
2009-2014
Assistant lecturer at Mathematics Department / College of Science /Salahaddin University/Erbil/IRAQ.

Teaching ass. / Sallahaddin Uni./Erbil
2003-2007
Teaching assistant-Full time- at Mathematics Department / College of Science /Salahaddin University/Erbil/IRAQ.

Video editor/IT
2000-2014
Part time job as IT and video editor at Zagros tv and Gulan TV in Erbil.

PUBLICATIONS

- Wang, Q., Mahmud, M., Cui, J., Smith, W.R. and Walmsley, A.D., 2020. Numerical investigation of bubble dynamics at a corner. *Physics of Fluids*, *32*(5), p.053306.

- Vyas, N., Mahmud, M., Wang, Q.X. and Walmsley, A.D., 2020. Imaging and Quantification of the Area of Fast-Moving Microbubbles Using a High-Speed Camera and Image Analysis. *JoVE (Journal of Visualized Experiments)*, (163), p.e61509.

- Rostam K. Saeed and Mehdi H. Mahmud, Solution of a system of two-dimensional linearFredholm integral equation of the second kind by quadrature methods, *Australian Journal of Basic and Applied Sciences*, Vol.3, No.3 (2009), 1701-1715.

- Mehdi H. Mahmud and Rostam K. Saeed , Numerical Solution of System of Two-DimensionalLinear Fredholm Integral Equations of the Second Kind by Adomian Decomposition Method, *Proceeding of the 4th International scientific conference of Salahaddin University-Erbil*,October 18-20, Vol.1 of 4 (2011), 31-34.fa

TEACHING EXPERIENCE

• Advanced Calculus, Mathematics Department, Salahaddin University-Erbil-Iraq., 2012- 2014
• Latex Package, Mathematics Department, Salahaddin University-Erbil-Iraq., 2013
• Numerical Analysis, Mathematics Department, Salahaddin University-Erbil-Iraq., 2010, 2014
• Visual Basic programming, Mathematics Department, Salahaddin University-Erbil-Iraq., 2010-2012.
• Visual Basic programming, Mathematics Department, Salahaddin University-Soran-Iraq., 2008-2010.
• Computational Mathematics using Matlab, Mathematics Department, Salahaddin University-Erbil-Iraq, IT Department in Lebanese French University-Erbil, 2013-2007,

RESEARCH INTEREST

- Bubble dynamics; Modeling Cavitation
- Boundary integral method
- Numerical Modeling; Computational Fluid Dynamics.
- Abaqus ; Modeling Cavitation around ultrasonic dental scaler.