

Madiha Kamran

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Work experience in various programming languages, technical writing and collaboration across diverse teams. Keen to troubleshoot problems and curious to learn new technologies.

Work Experience:

Al-Khwarizmi Institute of Computer Sciences (KICS), UET Lahore, as
Assistant Manager in the HUAWEI- UET Joint Telecom & IT Centre
(2007- 2016)

- Conducted trainings on Huawei's BTS312, BSC32, BTS3012, BSC6000, Radio Network Optimization as training instructor, for thousands of undergraduate students from engineering universities all over the country to prepare them enter the competitive telecom industry
- Led NAVTTC's Telecom Training project to educate Matric/FSc/DAE holders about communication system fundamentals and Huawei equipment (2015-2016).
- Developed and conducted training on LTE Physical layer implementation with **Matlab** simulations in KICS (September 2014), for undergraduate and graduate students and faculty members
- Led, completed and launched the project on 3G/4G updated trainings on BTS3900, BSC6900, HLR9820, MSoftX3000 and at HUTIC-KICS (Aug 2014)
- Conducted training on 3G RF Optimization in collaboration with a telecom company KomKonsult at HUTIC (2014) for the company employees
- Conducted C++ coding exercise sessions in training on WCDMA system implementation and issues at KICS (2012)
- Conducted lecture series on 2G/3G/4G telecom network in Electrical Engineering Department, UET (2015) for university's electrical engineering final year undergrad students
- Conducted communication systems lab in Electrical Engineering Department (2014)
- Conducted seminars on UMTS/WCDMA Physical layer, UMTS, HSDPA & HSUPA at KICS and Superior University (2010)

Proposals & Publication:

- Wrote winning proposals on HR development in Mobile Applications to ICTRDF accepted in (2012) and an international project of Asia mLabs funded by World Bank and infoDev (2011)
- Published an article on 3G Technologies in a technical magazine, "More" (<https://issuu.com/moremag/docs/jul09>)

Projects:

The first four projects repositories are managed on GitHub and are developed in agile scrum environment with Trello, ERDs in lucid and wireframes in Figma.

- **Vision habit tracker:** React Development, CSS Flexbox, Bootstrap, ES6 JavaScript, NodeJS on back end, MongoDB Atlas, Mongoose, asynchronous programming, Quotes API front end, React Calendar, React Victory for charts (2020)
- **Travelogue:** developed with Python, Django, postgresSQL, Postbird, Bulma, Bootstrap, JavaScript, Ajax, JQuery, Google Maps API, Google JavaScript API on front end, OpenWeatherMap's Weather API on back end, AWS S3 (group project - 2020)

- **Cookbooks:** developed with Express framework, NodeJS / npm, MongoDB Atlas, Es6 Javascript, Imgur API on front end, CSS Flexbox and Bulma, app's JSON API for further integration with pdfmake API on front end (2020)
- **Snakes&Ladders:** developed with HTML, CSS and Es6 JavaScript, SVG (2020)
- **MEng Project:** MapPlus - Deployment/troubleshooting/upgrade of Mobile App and server , worked on Android Studio, IntelliJ, Postman, Amazon Web server (2018)
- **MSc Thesis:** Performance Analysis of WiMax IEEE 802.16d over SUI channels - Matlab/C++ coding of SUI channels on IEEE 802.16d system developed by DSP team at KICS (2012)
- **BS FYP:** Software Defined Radio- Matlab/Verilog (2007)

Seminars, Trainings & Workshops:

- 5G Technologies arranged in LUMS (2015)
- Workshop on **Women Empowerment & Leadership** by COMSATS (2015)
- Training on Spectrum Management (WRAP) at KomKonsult (2015)
- Teachers training by QEC at UET (2014)
- Training on 3G RF Optimization & Regulatory Issues at CARE Islamabad (2014)
- One month orientation and training in Warid Telecom (2013)
- Huawei's NE routers and LAN switch 1st Line maintenance training (2011)
- Huawei's HCDP Fast track training(2011)
- Advanced GSM Radio Network Optimization training from Huawei university Shenzhen, China (2009)
- Qualcomm training on UMTS/WCDMA PHY at IQRA University, Islamabad(2009)

Education	
Level	Institution
Software Engineering Immersive (2020)	General Assembly, Toronto
MEng Electrical & Computer Engineering (2018)	University of Toronto, Toronto, Canada
M.Sc. Electrical Engineering (2012)	University of Engineering & Technology, Lahore, Pakistan
B.E. Computer Engineering (2007)	College of Electrical & Mechanical Engineering, (NUST), Islamabad, Pakistan

Volunteering Experience:

- Dig-in Club (2018-2019)
- Muslim Student Association (2017)
- Kitchen Community (2017)
- Hart House Farm committee (2016-2019)