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Abdul Qavi Paracha, MS (CE), BS (CS)

Principal Software Engineer / Architect

- Overall 8 years technical experience, expert in iOS, specialized in mobile apps in general.
- Experienced with Embedded Systems, RTOS, Parallel Processing, and many core GPU Computing - CUDA
- Currently developing Scalable IoT Solutions, with distributed Cloud architectures
- Working part-time with Big data ecosystems, Machine learning and Deep learning platforms
- Diverse experience of leading teams to deliver projects in stringent timelines. Experience in delivering software solutions using Agile and CD/CI.

Education

	Degree	Institution	Marks	
2011-2014	MS (Computer Engineering)	Center for Adv. Studies in Engineering, Islamabad, PK.	3.2 CGPA	
2009	BS (Computer Science)	Kohat University of Science & Technology (KUST), Pakistan	85.5%	Gold medal
2003-2005	F.Sc	Comp-Tech Degree College, Kohat	83%	Gold medal

Professional Experience

Clients:

- **TheCircleTech** - Wireless presentation & remote PC Controller
- www.thecircletech.com
- <https://itunes.apple.com/us/app/circle-viewer/id738061279?mt=8>
- RFB protocol based VNC app for Android/iPhone
- **Plenish** www.plenish.us – Grocery shopping IoT product
- **Implant Studio** – An app for Dentists (in progress)
- **iCab** - An app for transportation industry in Pakistan



Principal Software Engineer --- TEO International, Islamabad, Pakistan
[March 2012 -- Present] – www.teo-intl.com

- **Neets** <http://www.neets.dk/> - AV Systems Development – Denmark's largest AV Control Systems provider
- Using ARM-based Freescale Kinetis K60 Processor
- KeiluVision
- uTasker OS
- Pawn Scripting
- Embedded Pawn Abstract Machine
- FW Updates via web page
- HW Interfaces: USB, RS232, IR, SPI, I2C, I2S, Analog

- LAN Protocols: TCP/IP, IGMP, ICMP, HTTP, ARP, FTP, Websockets



- <http://moove.taxi> - An Application for Transportation industry – Europe's leading and largest Cabs service
 - <https://itunes.apple.com/dk/app/moove/id1180956418?mt=8>
 - Mobile application developed for iPhone
 - Using WebSockets for real-time data
 - Using iOS Native animations



WriteReader

- Learn to read by writing <http://writereader.com/> - Kids Learning and Book creation app for creativity and story
 - <https://itunes.apple.com/dk/app/writereader-pro-alinea/id899961335?mt=8>
 - Mobile application developed for iPad
 - Using Graphics, animations, Audio, more.



- <http://www.zylinc.com/> - Denmark's leading Communication Industry - A real-time Enterprise Collaboration System
 - <https://itunes.apple.com/us/app/zymobile-operator/id573501641?ls=1&mt=8#>
 - Application for iPhone
 - Using Asymmetric Cryptography for Encrypted communication
 - Customized Calendar development



- <http://edc.dk/>
 - An iPad app for Denmark's leading real-state company



Software Engineer --- And-or Logic (pvt) Ltd, Islamabad, Pakistan
[Dec 2009 – Jan 2012] – www.andorlogic.com

- **Network Management System:**
 - Using SNMP, Nagios, Flex, Actionscript, C/C++ CGI
- **Line Access Gateway**
 - Embedded C,
 - RS-232 HW Interface
 - Adobe AIR, Actionscript, C#
- **An SMS-based social networking site – www.smscrowd.com**
 - Using Open Srouce Kannel
 - PHP, MySQL, AJAX, JQUERY, CSS

Technical Proficiencies

Programming Languages: C/C++, Objective-C, iOS, Android, JAVA, Python

Parallel Programming (GPUs) and simulations: OpenMP, MPI, CUDA-C, OpenCL, Matlab (DSP / Speech / Image processing), Octave

Web Programming: PHP, Laravel, Node.js, JavaScript, CSS, AJAX JQuery, BackboneJS, NodeJS, CodeIgniter, Shell scripting, OpenERP/Odoo, HTML5, Websockets, WebRTC

Relational & NoSQL DBs: MySQL, SQLite, Hibernate, Redis, MongoDB

Big Data Systems and Message Queuing: Lambda architecture, Microservices, Hadoop, Apache Spark, Apache Storm, Apache Thrift, Apache Hive, Pig, Sqoop, AWS, Cloud Foundry, RabbitMQ, Kaa, Kafka (**Learning**)

Deployments: Docker, Kubernetes

ML and Deep Learning: Scikit-Learn, R, Theano, Torch, Caffe (**Learning**)

Embedded systems: ARM-based Freescale processors

Subjects and MOOC

MS (CE): Machine Learning, Big data and Cloud architectures, Digital Image Processing, Digital Processing of Speech Systems, Digital Design of DSP and FPGA, Parallel architectures and GPU computations

BS (CS): Data structures, Algorithms and parallel architecture, AI & ML, Compilers, Web and Network Programming, Databases, Image Processing, Software Engineering & Management

MOOC:

1. Machine Learning : <https://work.caltech.edu/telecourse.html>
2. Machine Learning : <https://www.coursera.org/learn/machine-learning>
3. DSP : <https://www.coursera.org/learn/dsp>
4. Heterogeneous Parallel Programming : <https://www.coursera.org/course/hetero>
<https://www.coursera.org/instructor/wen-meihwu>

Certifications

Neural Networks and Deep Learning by deeplearning.ai on Coursera.
Certificate earned on October 22, 2017
<https://www.coursera.org/account/accomplishments/verify/QCA9MWA76PAK>

CCNA

Research Publications

Voice Morphing based on Spectral Features and Prosodic Modification

- Published in ICDSP, IJSPS - Milan, Italy - <http://www.icdsp.org/> - <http://www.ijspss.com/uploadfile/2014/1210/20141210044237752.pdf>
- and IEEE- 17th International Multi-Topic Conference (INMIC), 2014 - <http://ieeexplore.ieee.org/document/7097373/>

Languages & Extracurricular activities

- Urdu, English, Hindko, Punjabi, Pashto
- **Books reading** - <http://goodreads.com/>
- <https://www.goodreads.com/review/list/28325848-abdul-qavi?shelf=read>
- Poetry, Gardening, Hiking, swimming, taking part in social welfare, and reciting Holy Qur'an that I've memorized by the Grace of ALLAH.

**Achievements /
Awards**

- GOLD MEDAL (BSCS from Kohat University of Science and Technology, Pakistan)
- GOLD MEDAL (FSc, BISE Kohat, Pakistan)
- Deputy. President (Media Committee), Computer Science Society, IIT, Kohat University of Science and Technology.
- 1st position in Declamation contest (organized by KUST on Anti-corruption day, 9-October 2007)
- 3rd position in Talk show competition, entitled “Can Western lifestyle make us better Human beings?” (2008)
- 2nd position in Inter—Colleges and Universities Qirat Competition, held at Kohat University of Science and Technology (KUST) - (2007)
- 5th position (5Km Marathon race, organized by KUST) - (2006)