Talha Paracha

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Rawalpindi, Pakistan
http://talhaparacha.com

EDUCATION

NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY
Bachelors in Software Engineering
2014 - 2018
• Cumulative GPA: 3.72 / 4

ARMY PUBLIC SCHOOL & COLLEGE
Intermediate
• Percentage Acquired: 84%

AMARANTH SECONDARY SCHOOL
Matriculation
• Percentage Acquired: 88%

COURSEWORK

ONLINE (MOOCs)
• Machine Learning
• Intro to Theoretical Computer Science
• Digital Image Processing
• Intro to Psychology
• Intro to Philosophy

UNDERGRAD
• Object Oriented Programming
• Database Systems
• Data Structures
• Software Engineering
• Discrete Mathematics
• Introduction to Programming
• Introduction to ICT

SKILLS

LANGUAGES
C & C++ • PHP & MySQL • HTML & CSS

TOOLS
Git • Wordpress • Photoshop

LINKS
• Website: talhaparacha.com
• Drupal: drupal.com/user/3285935/track
• Facebook: fb.com/paracha.talha
• Quora: goo.gl/BZmy80

WORK EXPERIENCE

OPEN-SOURCE DEVELOPMENT
Drupal | 2015 - ongoing
• I regularly contribute patches to the Drupal core.
• See my profile from links at right for tracking my code contributions and patch reviews.

BLOGGING
hitechanalogy.com | 2011 - 2013
• Wrote product reviews and comparisons on devices from Apple, Samsung etc.

SITE BUILDING
Wordpress | 2010 - 2015
• Built and managed several Wordpress based websites for various clients.
• collegesmartcounselling.com is the most recent project.

NOTABLE ACHIEVEMENTS

WINNER • WOMEN TRANSPORT INNOVATION HACKATHON
Sponsored by UN Women | September 2015
• Developed an Android app + website for women's safety.
• Features included offline GPS based monitoring & offline cab's number-plate photo sharing/retrieval.

WINNER • SEECS SOCIAL HACKATHON
Sponsored by Telenor | March 2015
• Developed an entry test preparation Android app based on an online crowd-sourcing community model.

RECIPIENT • RECTOR'S APPRECIATION AWARD TO HIGH ACHIEVERS
Sponsored by NUST | For Year 2015

NOTABLE PROJECTS

TEXT COMPRESSION USING LEMPEL-ZIV ALGORITHM & SUFFIX TREES
Written in C++ | 600 lines of code | January 2016
• Built Suffix Trees using Ukkonen's online algorithm.
• Using them, the original Lempel-Ziv algorithm was implemented for text compression. The whole operation was thus kept linear in time with respect to the size of input string.
• Compression of a fiction book consisting of 1 million alphanumeric characters got done in 13 seconds and resulted in a reduction of around 0.2 million characters.

WEBTIMIZE.ME • COMPREHENSIVE WEBSITE SEO AUDIT
Written in PHP | 3400+ lines of code | June 2013
• Developed an online SEO report generator.
• The bot started by crawling up to 500 internal pages of a given website and then checked for 10+ basic but important SEO factors including broken 404 links, missing alternate texts on images, user-friendly URL structures, duplicate title tags among pages, GZIP compression and a few others.
• The results then got compiled and emailed to the user in a PDF format along with the recommended actions to take for each check which resulted negatively.