



Talha Paracha

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COURSEWORK

ONLINE

Machine Learning
Intro to Theoretical Comp. Science
Digital Image Processing
Intro to Psychology
Intro to Philosophy

UNDERGRAD

Object Oriented Programming
Database Systems
Data Structures
Software Engineering
Discrete Mathematics
Intro to Programming
Intro 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

EDUCATION

NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY

Bachelors in Software Engineering | 2014 - 2018
Cumulative GPA: 3.72 / 4

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;
<http://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 with features including offline GPS based monitoring and offline cab's numberplate photo sharing/retrieval.

WINNER • SEECS SOCIAL HACKATHON

Sponsored by Telenor | March 2015

Developed an entry test preparation Android app based on online crowd-sourcing community model.

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 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 many others. The results were then compiled and emailed to the user in a PDF format along with the recommended actions to take for each check which resulted negatively.