Muhammad Nafees Hassan

Contact

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- https://github.com/Nafees10
- https://nafees10.github.io

Technical Skills

- D Language
- Java
- C++
- SQL
- Python
- C#
- Pascal – Delphi & Free Pascal
- PHP
- Git CLI
- Bash shell scripting

Familiar With:

- JavaScript
- Lua

Web Development:

- LAMP stack
- CSS & HTML5
- vibe-d, D Language
- SparkJava

Linux Operating Systems:

- Primary OS since 2016
- Setting up & maintaining headless servers

Embedded Development:

- Arduino & ATTiny
- PlatformIO

Work Experience

2023	**DevOps Intern** Questra Digital
January 2024 - August 2024	**Junior Research Assistant** FAST NUCES (part time)
May 2024 - present	**Junior Software Engineer** FAST NUCES (part time)

OSS Contributions

2019	**termbox-d** Identified and fixed bugs
2023	**dlang-ods** Added feature to parse merged cells in spreadsheets

Projects

2016 – present	**qscript** (D Language) open source Scripting lagnauge, focusing on extensibility & performance. Features a compiler, and a VM.
2017 - present	**qui** (D Language) open source Text User Interface Library, widgets based, with a focus on need-based-refresh.
2017 - 2017	**qblog** (LAMP, HTML5, CSS) open source (archived) LAMP based CMS, for blogs. Features a responsive design, using CSS only. Uses a template based approach, to separate structure and style from backend.
2018 - present	**pngtext** (D Language) open source Steganography tool, for hiding data (text or otherwise) into the pixels color data of a PNG image. Utilises qui to provide a UI.
2019 - present	**NaVM** (D Language) open source Easy to use library for creating VMs. Provides bytecode parsing, binary bytecode formats, and execution, with a focus on low execution overhead.
2022 - 2024	**slowtable** (D Language) open source A set of timetable tools to parse, filter, generate combinations, and view timetables, specific to FAST NUCES Lahore, to help students in registration.

Education

2010 – present	Self taught programming
2017 - 2019	GCE O Levels
2019 - 2021	GCE A Levels
2021 - present	BS Software Engineering, FAST NUCES Lahore (ongoing)

Achievements

2019	3 A*	6 A	1 B	in O Levels
2019 - 2021	1 A*	2 A		in A Levels
2023	LUMS CodinGuru 2nd place Runner Up in Programming Contest		