

# Muhammad Hassan Raza

Software Engineering student with multiple projects, as well as the determination to always learn new tools and technologies to expand my skillset. I always look forward to complex programming projects so I can spend my time breaking down the problem.

## SKILLS

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- Advanced C++
- Advanced English
- Advanced Communication
- Advanced Java
- Advanced Git
- Intermediate JavaScript
- Intermediate Python
- Beginner BASH
- Beginner Julia








## Education

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Graduating 2024	<b>Software Engineering</b> , FAST-NUCES – Lahore <ul style="list-style-type: none"><li>• CGPA: 3.18</li><li>• Assistant Vice President, SOFTEC</li><li>• 3<sup>rd</sup> Place at NaSCon'22 Code Studio Competition</li><li>• Teaching Assistant for Introduction to Software Engineering</li></ul>
A-Levels	<b>Computer Science</b> , Beaconhouse, ALJT – Lahore <ul style="list-style-type: none"><li>• 1B, 3C; Medical Treatment during exams</li><li>• Shaukat Khanum Volunteer, Member Speech Society</li></ul>
O-Levels	<b>Computer Science</b> , Sharif Education Complex – Lahore <ul style="list-style-type: none"><li>• 4A*, 4A</li><li>• 2 speech competitions, 1 poetry contest winner</li><li>• Highest Achiever Shield of Excellence</li></ul>

## Projects

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-  **Image OCR** – Tkinter and Pytesseract - Create snapshot, export transcript
-  **Linear Model Solver** – CustomTkinter and PuLP – Find optimal values, Slack, Shadow Prices
-  **Bill Manager** – Separate GUI for Manager and Customer
-  **Image Editor** – Mean/Median, Translate, Scale, Transform, Quantization, Derivation
-  **Weather App** – Tkinter and OpenWeatherMap API, Display Temps, Sunrise, Windspeed
-  **Notepad App** – Swing toolkit, Load/Create/Save text files
-  **Todo Manager** - Add/Remove/Complete/Save tasks