

Basima Maham

Computer Science Undergraduate | Forman Christian College University | GPA: 3.848 / 4.0 | Exp. Graduation Fall 2026
Lahore, Pakistan | basimamaham@gmail.com | +92 330 3670 110 | [GitHub](#) | [LinkedIn](#)

TECHNICAL SKILLS

Languages: Python, Assembly, JavaScript (ES6), HTML5, CSS3, SQL

Frameworks & Libraries: React.js, FastAPI, Bootstrap, PyGame, Vite

Tools & Platforms: Git/GitHub, SQL Server, Gemini API, Google Colab, FastText, WordPress, VS Code

Design: Adobe Photoshop, Adobe Lightroom, Canva, CapCut, Lens Studio

PROJECTS

Retail Shoplifting Anomaly Detection | Deep Learning | [GitHub](#)

- Built a two-stage CCTV pipeline (I3D + AnomalyNet + BiLSTM) to detect and localize suspicious activity, with a FastAPI backend and React dashboard.

RUN: Roman Urdu Normalizer | NLP Research | [GitHub](#)

- Built an unsupervised FastText-based pipeline to normalize Roman Urdu text while preserving English words via language detection; achieved 83.9% F1.

ExamPulse | Generative AI | [GitHub](#)

- Engineered a predictive analytics engine using Gemini API to process past exam papers and generate personalized study plans with React and FastAPI.

EduMate | Software Engineering | [GitHub](#)

- Architected a study group platform using React.js, TypeScript, and Vite; led full SDLC including system design, requirement analysis, and documentation.

CPU Scheduling Visualizer | OS Simulation (Python) | [GitHub](#)

- Developed a GUI app to simulate and visualize CPU scheduling algorithms with performance metrics.

Online Shopping Platform | Database Design (SQL Server) | [GitHub](#)

- Designed a normalized relational database schema (3NF) managing 15 tables with advanced SQL queries.

Urban Retreat | Frontend Web Development | [GitHub](#)

- Built a responsive guest house booking platform using React.js and Bootstrap, leveraging ES6 for modular component architecture.

Space Odyssey | Game Development (Pygame) | [GitHub](#)

- Engineered a 3-level Python game with collision detection, rewards, penalties, portals, and optimized real-time rendering.

Line-Following Robot | Hardware Logic & Design | [LinkedIn Post](#)

- Designed a sensor-based robot using logic gates; achieved the fastest track completion time in class.

EXPERIENCE

DevOps Intern | DaFi Labs, Remote | July 2026 – August 2026

Teacher Assistant | Feb 2026 – June 2026 | Course: COMP 301 Operating Systems

Tutor | 2022 – Present | Grades 1–10 | Math, Science & Languages

Wedding Photo Editor | Remote, Keography | July 2021 – Apr 2022

UNIVERSITY SOCIETIES & CLUBS | FCCU

- Youth Peace & Development Council** — Poster Competition Segment Head (Mar 2026 – June 2026)
- Forman CS Club** — Lead Team Outreach (Jul 2025 – June 2026)
- The Art Junction** — Team Creatives (July 2024 – June 2025)
- Earth Watch Club** — Team Management (July 2024 – June 2025)
- Rotaract Club** — Assistant Creatives (July 2024 – June 2025)

CERTIFICATIONS & ACHIEVEMENTS

- Generative AI Application Developer Certificate — UETians Lahore Endowment Foundation USA
- Freelancing & WordPress (DigiSkills, Ignite, MoIT)
- Graphic Designing 101
- Soliya Connect Program 2025
- Winner of Interschool Parliamentary Debate (2020) | Organized/hosted multiple school & college events
- Distinction in Physics, Matric (100%)

VOLUNTEERING

- Food Distribution Drive (FCCU)
- Secret Santa at Light of Hope School via Rotaract Club
- Trash Recycling with Pecodrop (FCCU)