

# Sikandar Zulqarnain

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## SUMMARY

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Full-Stack Developer and CS student (CGPA 3.3/4.0) with production experience shipping scalable web applications using React.js, Next.js, Node.js, MongoDB, and Python. Independently delivered two live systems at GIL: a research website serving an international community and a complete LMS platform. Skilled in development, REST APIs, Python automation, and Linux. Driven by ownership, clean architecture, and measurable impact.

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, HTML5, CSS3, Bash

**Frameworks & Libraries:** React.js, Vite, Next.js, Node.js, Express.js, Pandas, NumPy, Selenium, Tkinter/PyQt

**Databases & Services:** MongoDB, Railway (PostgreSQL), Firebase (Auth & Realtime DB), Nodemailer (SMTP)

**Tools & Platforms:** Git, GitHub, VS Code, Antigravity, Cluade Code, Vercel, Android Studio, Ubuntu Linux, Bash Scripting, REST APIs, SEO

## WORK EXPERIENCE

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### Software Development Intern

July 2024 – Present

*Genomics & Informatics Lab (GIL)*

*Lahore, Pakistan*

- Architected and deployed **genomatics.net** using **React.js + Vite** (frontend) and **Node.js + MongoDB** (backend), with **Nodemailer** automated email notifications – live and used by the global research community.
- Built the **GIL LMS** with **Next.js** and a **Railway (PostgreSQL)** relational database, fully digitalising the lab's educational content delivery and resource management.
- Delivered the **GIL Manager Android app** (Java + Firebase) for employee management, task tracking, and client records – adopted daily by lab staff with Firebase Authentication for secure access.
- Engineered **Python automation pipelines** (Pandas, Selenium) eliminating repetitive data tasks; built GUI tools (Tkinter/PyQt) accessible to non-technical users.
- Translated complex bioinformatics requirements into production software through close collaboration with researchers.

## PROJECTS

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**Genomatics.net** | *React.js, Vite, Node.js, MongoDB, Nodemailer, REST API, Custom CSS*

[genomatics.net](https://genomatics.net)

- Solo-developed the complete production website from scratch – UI/UX, RESTful API backend, SMTP-based automated email system (Nodemailer), and deployment; mobile-responsive and SEO-optimised.

**GIL LMS – Learning Management System** | *Next.js, Railway (PostgreSQL), REST API*

- Full LMS platform leveraging Next.js SSR/SSG for performance and Railway PostgreSQL for scalable content delivery, course management, and student progress tracking.

**GIL Manager – Android App** | *Android Studio, Java, Firebase Auth, Firebase Realtime DB*

- Internal Android app with real-time Firebase data sync; covers employee records, task assignment, and client management – deployed as a daily-use internal APK across the lab.

**Python Automation Toolkit** | *Python, Selenium, Pandas, Tkinter/PyQt, Schedule*

- Web scrapers for scientific database extraction, automated Excel/CSV report generators, and GUI-wrapped automation tools for non-technical staff.

## EDUCATION

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**Associate Degree – Computer Science** | CGPA: 3.3 / 4.0

Expected: April 2026

*Minhaj University*

*Lahore, Pakistan*

**Intermediate – Computer Science (ICS)**

March 2023

*Uswa College Boys Skardu*

*Gilgit-Baltistan, Pakistan*

## CERTIFICATIONS

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**Web Development** – Professional Freelancing Training Program

*Jan 2024*

**Data Science** – Professional Freelancing Training Program

*Dec 2023*