

Muhammad Asim

Full-Stack Engineer • Backend • AI-Powered Products

Islamabad, Pakistan • +92 306-9174535 • asimqwe2@gmail.com • [LinkedIn](#) • [GitHub](#)

PROFESSIONAL SUMMARY

Final-semester Software Engineering student at Air University, Islamabad, with three years of hands-on experience building backend systems, full-stack web applications, and AI-powered products. Co-founder of **Illume Estate** — an incubated, funded startup that won the **Tabeer.ai competition**, secured external funding, and was recognised on the Air University Department Wall of Fame. Designed and built **PakSentiment** — a production-grade, multi-server sentiment analysis platform with four independent services (NestJS, FastAPI, Go/Gin, Next.js) and a custom Python scraping library. Comfortable owning architecture end-to-end — from database schema to deployed API to polished UI.

TECHNICAL SKILLS

Languages	Go, Python, TypeScript, JavaScript, C++, Lua
Backend	NestJS, Node.js, FastAPI, Django, Gin (Go), REST APIs, PostgreSQL, SQL
Frontend	Next.js, Angular, React, React Native
AI / ML	TensorFlow, scikit-learn, HuggingFace Transformers, NLP pipelines
Scraping	Scrapling (custom library), Colly (Go), Reddit API, Twitter API, Common Crawl
Tooling & DevOps	Docker, Git, GitHub Actions, Neovim, Linux

PROFESSIONAL EXPERIENCE

Frontend Developer Intern

Jun 2024 – Sep 2024

[Cognitive Health International](#) • [Islamabad, Pakistan \(Remote\)](#)

- Led the full architectural migration of an existing Angular application to Next.js, taking sole ownership of project structure, component design, and code conventions.
- Worked directly with the lead developer to define scalable frontend architecture patterns adopted across the entire codebase.
- Delivered a maintainable, production-ready Next.js application independently within a three-month engagement.

Co-founder & Full-Stack Developer

Dec 2022 – Present

[Illume Estate](#) • [AUBIC Incubation Centre, Islamabad](#)

- Co-founded and built Illume Estate — a web and AI training services company registered and incubated at Air University's Business Incubation Centre (AUBIC).
- Ranked as a high-performing startup at AUBIC, secured external funding through competitive evaluation, and won the Tabeer.ai startup competition.
- Designed and developed client-facing web products and AI-powered solutions end-to-end, managing both technical delivery and client relationships.
- Team recognised by the Air University Department of Computing & Technology — selected for the department Wall of Fame for entrepreneurial achievement.
- Participated in national-level startup championships representing Air University.

React Native Developer

Oct 2024 – Nov 2024

[Meelio.ai](#) • [Remote \(Contract\)](#)

- Contracted to develop mobile UI screens and components for Meelio.ai's React Native application.
- Delivered frontend components within a short engagement before returning to focus on final-semester academic commitments.

PROJECTS

PakSentiment — Final Year Project [\[NestJS\]](#) [\[FastAPI\]](#) [\[Go/Gin\]](#) [\[Next.js\]](#) [\[Python\]](#) [\[NLP\]](#)

- Architected a multi-server sentiment analysis platform with four independent services: NestJS backend for auth and user flows, FastAPI AI services server for NLP inference, Go/Gin server for lightweight web scraping using Colly, and a Next.js frontend.
- Authored a custom Python scraping library (Scrapling) to crawl Reddit, Twitter, and the open web — feeding structured data into the AI summarisation pipeline.

- Integrated HuggingFace Transformer models for sentiment classification and result summarisation, returning AI-generated insights per query.

pixl-go — Desktop Drawing Application [\[Go\]](#) [\[Fyne\]](#) [\[Cross-platform\]](#)

- Built a Windows Paint-style desktop drawing application entirely in Go using the Fyne UI framework — cross-platform, lightweight, zero external dependencies.
- Demonstrates proficiency in Go beyond web services — including GUI event handling, canvas rendering, and native desktop packaging.

Wails — Open Source Contribution [\[Go\]](#) [\[Open Source\]](#)

- Contributed to the Wails open source project — a Go framework for building cross-platform desktop apps with web frontends.
- Improved developer-facing documentation to help engineers integrate Go backends with modern web frameworks.

Ludo Game — C++ [\[C++\]](#) [\[graphics.h\]](#)

- Developed a fully playable Ludo game with a custom graphical UI using the graphics.h library.
- Sole developer responsible for game logic, rendering, turn management, and player interaction from scratch.
- Developed animations entirely using code and maths.

EDUCATION

BSc Software Engineering

2021 – 2025 (Expected)

Air University, Islamabad • Department of Computing & Technology

- Scholarship recipient — awarded for outstanding academic and entrepreneurial performance.
- Co-founded Illume Estate during studies — ranked high-performing startup at AUBIC incubation centre.
- Team selected for Department Wall of Fame for entrepreneurial achievement.

CS50: Introduction to Computer Science • Harvard University (HarvardX)

Full-Stack Web Development & Python • Zero to Mastery Academy (ZTM)