Laith Abu-Saleem

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Personal Statement

A researcher exploring the intersection of technology, neuroscience, and human behaviour, aiming to develop biomedical systems that enhance cognitive and physical capabilities by integrating psychology, neuroscience, and engineering. My work combines technical precision with human-centred design to advance medical technology and deepen understanding of the mind-body connection.

EDUCATION

Islamic Educational College (IEC) **Amman, Jordan**
Senior Student, Class of 2026

- **Advanced Coursework:** Biology, Mathematics, Chemistry, Computer Science.
- **Focus Areas**: Biomedical Engineering, AI-driven Innovation, Cognitive Systems.

Applied Science University (ASU)

- First year student in AI & Data Science

Achievements & Competitions

Scholarships :

- 50% Scholarship – Applied Science University (ASU)
- $12,000 Scholarship – Rochester Institute of Technology (RIT)

National and International Competitions that I Participated in:

- 1st Place – National Cyber Security Competition (NCSC 2025)
- Gold Medal – National Junior Cybersecurity Olympiad (NJCO 2025)
- 2nd Place – Artificial Intelligence Olympiad (AIO ML 2025)
- 2nd Place – AIO 2024 (Algorithms & Math Track)
- 3rd Place – ASUCK (ASUCyberKingdom)
- Finalist – International Science and Engineering Fair (ISEF 2025, Jordan)
- Finalist – Genius Olympiad 2025 (New York, USA)
- Finalist – IFEST (International Festival of Engineering Science and Technology)
- Top 10 – RLCTF (RLords Capture the Flag)
- Participant & Assistant – JoYS 2024–2025 (Jordan Youth Science Forum)

Projects

Injury Detection System

- Developed a biomedical monitoring system that processes real-time vital signs (heart rate, oxygen level, and temperature), achieving 95% accuracy in early injury detection, and sends automated alerts to the patient.

TinyTask (AI Note System) – *Contributor*

- Led concept and UI/UX design of a minimalist AI-driven note-taking platform, focusing on intelligent summarization and task memory.

Vytal (AI Mental Health Companion)

- Working on a mental issues companion for the 2026 competitions with my friend Hamzeh Hijazi, who was the developer, while I was the one who made the research, study and some other documenting parts, while he did most of the showcase and actual project from apps to tools to websites and everything that we could need other than the theoretical part of it.

Miscellaneous GitHub Projects

- Developed small-scale experiments in AI, automation, and cybersecurity, including a prompt-injection detection prototype and automated data pipelines, to strengthen skills in model integration and interface design.
- Other different projects serving local businesses such as loyalty systems or even new ideas that were never introduced to the market

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Technical Skills

- **Programming:** Python: Data analysis (Pandas, NumPy), basic machine learning models, API development, Arduino integration.
- **Focus Areas:** Artificial intelligence, cybersecurity, biomedical systems, neuroscience, and medical technology.
- **Tools:** Git/GitHub, Notion, Flet, Arduino, Serial communication tools and some cryptography tools.
- **Concepts:** Machine learning, AI, biomedical data analysis, neural modelling, prompt-injection detection, prevention and even the use of it to jailbreak AI tools (mainly Claude and ChatGPT).

Design & Creative Skills

- **UI/UX Design:** Minimalist interfaces, behavioural triggers.
- **Human-Centred Systems:** Stress-reduction workflows, attention management tools.
- **Concept Visualisation:** Translating complex neuroscience into intuitive tech solutions.
- **Behavioural Design**: Using psychology to optimize user engagement, I like it, so I try to find the relationship between the human brain and everything around it or us.

Core Competencies

- **Research-Driven Innovation:** Investigating mind-body-tech interfaces through experimental projects.
- **Cross-Disciplinary Problem-Solving:** Merging cybersecurity, AI, and biomedical engineering.
- **Human Factors Engineering:** Designing systems aligned with cognitive psychology principles.
- **Technical Communication:** Translating complex concepts for scientific and public audiences.
- **Adaptive Learning:** Rapidly mastering new domains (e.g., neural modelling, prompt injection, but not coding).