MARIANO GRANIEL

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EDUCATION

Universidad Anáhuac Cancún *Cancún, Quintana Roo*

Bachelor's Degree in Information Technology and Digital Business *Third semester, in progress*

- Google Career Launchpad · Gemini Enterprise Agent Ready (GEAR): all labs completed at 100%.

PROJECTS

ParkUni · Smart parking *Circuits course project*

- Ultrasonic sensor per parking spot with ESP32 (C++) reporting to a local server in Python (standard library only) and SQLite, on Fedora with systemd, firewalld and SELinux.
- Driver app that assigns the nearest free spot with map and voice guidance, and an admin panel with sensor status and event log; state refreshes every second.
- Atomic spot reservation on the server to prevent duplicate assignments, and internet publication through a tunnel, without opening router ports.

port-scanner · Port scanner with a purple team approach *Python*

- Concurrent scanning with rate limiting (IPv4, IPv6 and CIDR) and a detector over UFW/iptables and Suricata logs, with Sigma and Suricata rules mapped to MITRE ATT&CK T1046.
- Mandatory scope and a hash-chained audit log.

osint-tool · Passive domain reconnaissance *Python*

- Modules for DNS (SPF, DMARC, DNSSEC), headers, subdomains, metadata and whois; findings ranked by risk with remediation, JSON and Markdown reports, and pytest tests.

LEADERSHIP AND SOCIAL ACTION

ASUA ING · Engineering social action *Universidad Anáhuac Cancún*

Committee member (7 people)

- Built a dashboard that centralized the committee's information and eliminated scattered links.

CIMA · University leadership program *Universidad Anáhuac Cancún*

Social action committee member

- Built the program's dashboard so the team works from a single place.

SKILLS

Development: HTML, CSS, JavaScript, Python, Java, C++. Learning: Node.js.

Hardware and IoT: ESP32, Arduino Uno, Raspberry Pi.

Linux and infrastructure: Fedora, systemd, SSH, firewalld, SELinux, AWS servers, home lab.

Cybersecurity: passive reconnaissance, detection with Sigma and Suricata, MITRE ATT&CK. Learning: reverse engineering with Ghidra, assembly and binaries.