

Jorgebyte

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Education

Computer Systems Engineering

Acapulco, Mexico

B.S. Candidate in Computer Systems Engineering

Expected Graduation: 2029

- **Relevant Coursework:** Data Structures, Systems Architecture, Computer Networks, Operating Systems, Relational Databases, Linux Systems Administration.

Experience

Freelance / Independent Specialist

Remote

Backend Developer & Linux Systems Administrator

2024 – Present

- Engineered high-concurrency microservices and RESTful APIs using Go, PHP (8.x), and Node.js following clean architecture standards.
- Provisioned and hardened Linux VPS server environments (Ubuntu/Debian/RHEL) implementing UFW, OpenSSH strict key policies, Fail2ban, and sysctl kernel tuning.
- Analyzed and mitigated Layer 4 (UDP/SYN floods) and Layer 7 (HTTP floods) DDoS attack vectors using Cloudflare Anycast WAF, Nginx rate-limiting, and iptables rules.
- Designed production microservice topologies backed by PostgreSQL read-replicas, Redis caching clusters, and RabbitMQ message queues for asynchronous task processing.
- Maintained web hosting infrastructure, raw UDP socket packet handling, custom proxy software, and specialized server engine forks (PocketMine-MP).
- Configured automated server telemetry, metric collection, and alerting dashboards using Prometheus and Grafana for continuous uptime monitoring.

Projects & Technical Publications

Distributed Microservices Architecture

jorgebyte.com

- Designed and deployed a full-stack platform featuring a Go API Gateway with JWT validation, gRPC over HTTP/2 routing, Next.js frontend, and decoupled backend services.

Systems Security & Hardening Reports

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- Published technical guides covering Linux VPS security hardening, DDoS mitigation methodologies, and OWASP-compliant Nginx TLS 1.3/HSTS web server configurations.

Skills & Interests

Backend & Architecture: Go, PHP 8.x, TypeScript, JavaScript, Java, C, Python, Laravel, NestJS, Spring Boot, FastAPI, gRPC, RabbitMQ, Kafka.

SysAdmin & DevOps: Linux Hardening (Ubuntu/Debian/RHEL), Web Hosting Admin, Network Security, Docker, Kubernetes, Nginx, OpenSSH, iptables, Fail2ban, Git.

Databases & Storage: PostgreSQL 16 (Replicas/ACID), MySQL, SQLite, Redis Cluster, MongoDB.

Frontend & Web Tools: Next.js (App Router, SSR/SSG), React, Tailwind CSS, REST APIs.

Languages: Spanish (Native), English (Technical / Professional working proficiency).