David Vivar Bogónez

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EDUCATION

Universidad de Castilla-La Mancha (UCLM) Ciudad Real, Spain
BSc in Computer Engineering, Escuela Superior de Ingeniería Informática (ESI) 2025 – Present

PROJECTS

artscii | *Rust* artscii.pages.dev
- Rust workspace for image and video to ASCII art, with a CLI, reusable crates, a WebAssembly app, multiple dithering algorithms, and ANSI/HTML/GIF/MP4 output.

sentinel | *Python*
- Python CLI for process supervision with process groups, log rotation, HTTP/TCP health checks, persistent state, live CPU/memory metrics, and remote SSH management.

sqlson | *Rust*
- Embeddable SQL engine and CLI that queries directories of CSV files directly, with joins, type inference, output formats, and no server or import step.

pgtop | *Scala*
- Scala 3 CLI that reads PostgreSQL workload statistics and prints ranked, actionable findings with evidence and ready-to-run SQL fixes.

http | *Rust*
- From-scratch HTTP/1.1 and WebSocket (RFC 6455) crates on Tokio, with compliance documentation, fuzzed parsers, regression tests, and offensive demos.

bfcompiler | *Rust* bfcompiler.pages.dev
- Rust Brainfuck toolchain with a compiler, resumable interpreter, terminal REPL, and browser playground, including WASM and native executable output.

perlin | *Scala*
- Scala 3 infinite landscape generator with layered Perlin/ridged noise, biomes, seeded maps, a first-person software renderer, and PNG/ANSI/SVG export.

TECHNICAL SKILLS

Languages: Python, Rust, Java/Scala, SQL, JavaScript/TypeScript
Databases: PostgreSQL, SQLite
Tools and platforms: Linux, Docker/Podman, Git and Github, Nix
Areas: Systems programming, network programming, concurrency, operating systems, agents

CERTIFICATIONS

freeCodeCamp: Relational Databases (ID: 4ster-light-rdv9)

LANGUAGES

English: C1 Advanced (CAE) - Grade C, Score 192 (Cambridge English)
Spanish: Native