Bilal Eddinaoui

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EDUCATION

1337 Coding School *Khouribga, Morocco*

Software Engineering Program, 2023 - Present

Peer-to-peer, project-based program in software engineering with hands-on work in C, C++, Linux, and full-stack development.

PROJECTS

WebServ - HTTP/1.1 web server (C++) - [GitHub](#)
- Capable of handling GET, POST and DELETE requests using an event-driven architecture with Kqueue.
- Static file serving and dynamic content generation using CGI with support of (php, py, js, pl, sh) file extensions.
- Support for cookies and session management with two dynamic applications in C++ and Python as examples.

Ft_Transcendence - Online Multiplayer Gaming Platform (TypeScript, Python) - [GitHub](#)
- Capable of running multiple games between different users concurrently using Django.
- Offers Complete Users management system with three different authentication methods.
- All run on top of docker using multiple containers for each service.

Next Gravity Demo - Physics Simulation (TypeScript) - [Website](#)
- Built an interactive gravity simulation with smooth particle movements.
- Optimized performance for responsive and efficient physics updates.
- Developed using Next.js, TypeScript, Prisma, and SQLite

Commodore 64 Emulator (C) - [GitHub](#) | [Live Demo](#)
- Implemented complete CPU emulation, memory management, hardware timing simulation.
- Developed a debugger which lets you view the contents of RAM, VIC-II registers, CIA 1 and 2 registers
- Ported into the web using WebAssembly.

Trading Client - High-Performance Trading System (C++) - [GitHub](#)
- Built a real-time order execution and management system for crypto trading.
- Implemented WebSocket-based market data streaming.
- Used the Deribit API to retrieve market data and execute trades.

WORK EXPERIENCE

Cashier - McDonald's, Kitchen Staff - PizzaHut *Rabat, Morocco*

2021 - 2023
- Worked with customers daily, handling payments and taking orders during busy hours.
- Prepared food quickly while keeping the quality standards, especially during rush times.
- Helped train new workers on cash register and food preparation standards.

SKILLS

Programming Languages: C, C++, Python, JavaScript, TypeScript
Technologies & Tools: Git, Docker, Linux, AWS, PostgresSQL, Redis, Selenium, Django, NodeJs
Topics: Software Development, Full Stack Web Development, Network & System Administration
Languages: English (fluent), Arabic (native)