Julio C. Villasante *May 24, 1980*

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Savvy Software Engineer with 10+ years experience. Expert in a variety of platforms, languages and embedded systems. An excellent problem solver, able to quickly grasp complex systems and identify opportunities for improvements and resolution of critical issues.

Experience

Omicron Media   FLORIDA, USA
Senior Software Engineer   *Jun '24 – Present*
Maintenance and development of the Usenet worldwide distributed network

- Omicron Media operates most of the world's Usenet servers. They serve billions of NNTP articles per day to hundreds of thousands of users by accessing petabytes of distributed storage. The service has various components for article retrieval, article storage, user authentication, accounting and authorization, and article distribution/consumption to/from other Usenet services.
- All of the Omicron products are multi-threaded and performance sensitive, and include the following technologies: C and C++, Posix Threads, TCP/UDP sockets, MySQL, RESTful APIs and SSL/TLS on clusters of Centos 7 and 8 servers, geologically distributed throughout North America, Europe and Asia.

Skillset: Operating Systems (Fedora, CentOS and Rocky Linux); Git Version Control; Data Structures; Algorithms; Performance design and analysis; Networking.
Languages: Primarily C & C++ in a UNIX-like environment; JavaScript; PHP Perl; Shell Scripting.

Nielsen   FLORIDA, USA
Lead Software Engineer   *Oct '18 – Jun '24*
Research and development for TV ratings and streaming meter.

- C & C++ for Linux Embedded development.
- QP/Qm framework for state machines on embedded devices.
- IPC, Object Oriented & Multi-threaded design.
- Networking communication, Network protocols parsing, Websockets.
- Unit test driven (Google Test) & Agile environment (Jira, Confluence, Gitlab).
- Web Application: JavaScript, Web Sockets, Node, QUnit.
- Authored US Patent 11,496,925 *Methods and Apparatus to Determine Virtual Wifi Data Rate*.

Skillset: Operating Systems (Debian and OpenWRT); Git Version Control; Google Test Framework; Data Structures; Algorithms; Performance design and analysis; QP/QM Framework; Networking.
Languages: Primarily C & C++ in a UNIX-like environment; JavaScript; Shell Scripting.

Please refer to my LinkedIn profile for a more complete list of work experiences along with recommendations.

Education

Instituto Superior Politécnico José Antonio Echeverría (CUJAE)   HAVANA, CUBA
Bachelor degree in Computer Science (CS)   *2003 – 2008*
Main courses in Programming Languages, Algorithms, Data Structures, Software Design, Software Architecture, Systems Engineering, C, C++, Web Technologies. Picked up quite some Java skills along the way.

Skills

Technical expertise: Big fan of Agile methodologies. Enjoys writing C & C++ mostly, but have experience in other languages as well. Solid knowledge of SQL and relational databases (PostgreSQL, MySQL, SQLite). Solid knowledge of web technologies. Strong Linux administration skills (e.g. Bash scripting). Strong Embedded systems development and integration skills. Complex problem solver skills. Strong decision maker. Excellent communicator. Independent, organized, punctual, positive attitude, team player, fast learner. Happy Git user. Emacs and VIM user.

Natural languages: Spanish (*mother tongue*), English (*full professional proficiency*).