

Danny Spencer

Contact & Info

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🌐 github.com/nukep

🌐 nukep.github.io/portfolio

Education

🎓 **SAIT Polytechnic**

🕒 *September 2012 – April 2014*

Diploma

Information Technology,
Software Development

Programming languages: C, C++, Java, JavaScript, Python, PHP, bash, Rust

Database: MySQL, SQLite, Oracle, MongoDB, database design, 3NF normalization

Web: HTML, JavaScript, CSS, Sass, node.js, D3.js, Apache, nginx, jQuery, REST, Spring, Ember.js, responsive design

Technologies: Windows, Linux, Docker, Git, gcc, clang, MSVC, gdb, Valgrind, PhoneGap, Qt, OpenGL

Projects

- LlamaDB: A work-in-progress SQL database - Rust
- rust-sdl2: Library wrapper for SDL2 - Rust
- nesemu: A simple NES (Nintendo) emulator - Java
- OpticNav: Capstone project, proof-of-concept augmented reality maps software - Java
- FamiTracker CX: A cross-platform Qt fork of FamiTracker (8-bit chiptune software) - C++

Technological skills

- Unit, integration testing
- Test-driven development
- Object oriented, functional paradigms
- Ergonomic API design
- Concurrent programming
- Debugging and troubleshooting
- SOLID principles
- Code analysis and refactoring
- Algorithms, data structures

Soft skills

- Learns new concepts, technologies and languages very quickly
- Issue tracking - Redmine, GitHub
- Detailed writing: comments, issues and commit messages.
- Critical thinking / problem solving
- Loves to talk about exciting ideas
- Gets along well with others
- Positive outlook

Work experience

SAIT ARIS RADLab

🕒 *Contracted April 2014 – June 2014*

- Junior Full-stack developer for prototypical web and mobile applications; mobile via PhoneGap
- Collection and visualization of wireless, real-time hardware data
- Iteratively designed MySQL schema used for data storage

Data entry for PMAST

🕒 *Contracted January 2012 – April 2012*

- Enter written feedback from students into an online database, 80 WPM