

Brenden Matthews <brenden@diddyinc.com> Berkeley, CA

Website: <http://diddyinc.com/>

Passionate software engineer with specialization in building fast, small, efficient code in everything from assembly to Ruby.

Career Highlights and Notable Achievements

As a professional:

- Developed self updating, cross platform, multi-threaded optimized, easy-to-use end user applications.
- Built full spectrum of integrated application suite from embedded device to the desktop to the web.
- Developed a fast, effective, reliable low-level communication protocol for communicating with ultra low power embedded devices.
- Created data visualization tools from the ground up for specialized data manipulation and analysis allowing customers to visualize and manipulate hundreds of thousands of data points in real-time.
- Utilized open source tools to dramatically reduce development time, thereby driving down development costs and delivering high quality software solutions to customers in a timely fashion.
- Created cross-platform automated software build solution to decrease development-to-testing period.

Samples of code may be provided upon request.

As a hobbyist: Significant contributor to numerous open source projects (including the Linux kernel, SQLite, MPD, Gentoo and more), as well as the creator and maintainer of some popular projects. Maintaining and continuously developing software used by thousands of individuals on a daily basis, and built a strong and growing community of supporters and enthusiasts for the following projects:

- [Conky](#), a dynamic and extensible system monitor used by professionals and normal users alike, featured in the default desktop installation for some prominent Linux distributions.
- [Omploader](#), a file hosting and online video service.

Full source code for these projects and others can be viewed at <http://git.omp.am/>.

Relevant Work Experience

2009 to present

Working at [Newfield Wireless](#) as a **Senior Software Engineer** - built a [UMTS](#) network data parser and indexer. Introduced new development and debugging methodologies to the team which significantly improved the pace of development and quality of deliverables. Assisted senior and junior developers on all aspects of software engineering.

2003 to present

Worked at [RTM Inc](#), an oil & gas instrumentation and technology producer, in Calgary, AB, from 2003 to present. Began working on a part time basis while attending school, and continued working full time after school. Grew within the company to become:

- **Software Development Manager** - managed and coordinated a software development team, oversaw development of various software projects including end user applications, web services, and embedded software/firmware. Involved in

strategic planning, performance and productivity improvement, organizational design, e-commerce, new media and Internet promotion. Planned, participated, and coordinated team building exercises while demonstrating strong leadership skills.

- **IT Manager** - configured and managed servers, automated backup systems, and provided support for customers as well as in-house. Leveraged new technologies to enhance our product-to-customer experience in a timely and cost effective fashion. Implemented cost reduction IT strategy to make use of existing infrastructure instead of requiring further equipment purchases.
- **From 2009 on**, continued working as a part-time consultant on various matters.

Education

2007 - earned BSc in Computer Engineering in Calgary

Skills

Very talented programmer, with ample experience in many languages and technologies. Very fast learner, with strong abilities to self teach. Strong functional and imperative programming skills, with a speciality in creating optimized code on any platform. Very strong written and verbal communication skills.

Top 8 programming languages and technologies (in no particular order):

- C++
- C
- Python
- Ruby
- SQL
- Java
- Javascript
- x86, MIPS, PPC, PIC, 68HC11 assembly
- Qt, GTK+, Xlib
- XML, XSLT, Protocol Buffers
- MySQL, PostgreSQL, SQLite, Oracle
- Amazon Web Services (EC2, S3)
- Memcached, TokyoCabinet, QDBM
- Ruby on Rails, Django, CGI
- Git, SVN, CVS
- CMake, autotools, gdb, gprof, Valgrind, GTest

Spoken Languages

Native English speaker, currently studying French, with limited knowledge of Spanish and Portuguese.

Hobbies and Interests

Programming, technology, cycling, photography, film, art, volunteering, learning. Retired volunteer with [Big Brothers and Big Sisters of Calgary](#). Volunteered at local Calgary homeless programs such as [The Seed](#) and [CUPS](#). Was actively involved in leadership and volunteering programs while attending school.

Availability

Not actively seeking employment at this time, but open to exploring opportunities.