

Trevor B. Saunders

102 Ulster St.
Toronto, ON M5S 1G1

(647) 909-8895
tbsaunde+recruiting@tbsaunde.org

PROFILE

Strong systems developer with 5 years experience. Deep familiarity with open source communities including being a core contributor to Firefox, and a significant contributor to GCC. Careful and thoughtful code reviewer. Accomplished debugger of difficult problems.

EDUCATION

- **Carnegie Mellon University** — *Graduated 2012*
Computer Science Major with a Math minor

SKILLS

- **Languages**
 - Expert with C/C++, Shell and UNIX tools
 - Proficient with X86/X86_64 assembly
 - Familiar with C#, PHP, Python, Perl, Javascript, Java, Rust, and Standard ML

EXPERIENCE

- **Full Time Software Engineer** — *July 2012 - current*
Mozilla Corporation
 - Carried out several Firefox wide refactorings to improve performance and readability
 - Designed and implemented cross process accessibility architecture
 - * Implemented a cross process cache of objects
 - * Debugged numerous cache invalidation bugs
 - * Coordinated with other teams a design and implementation plan that met their requirements
 - * Mentored team mates assisting with implementation
 - * Helped plan a testsuite to check correctness of new implementation
 - Maintained SpiderNode - a port of Node.js on top of SpiderMonkey (Firefox's JS engine)
 - * Worked with JS engine team to expose new features from the JS engine
 - * Debugged various API incompatibilities between V8 (Google's JS engine) and SpiderMonkey
 - Improved the Firefox build system's performance and maintainability
 - * assisted with several upgrades to our toolchain including compilers for Linux and Android as well as the Android SDK
 - * Increased parallelism of the Firefox build system
 - * Removed obsolete and unnecessary parts of the Firefox build system
 - Accessibility API maintenance work
 - * Made both algorithmic and low level performance improvements to the accessibility API implementation
 - * Resolved crashes and assertions found in the field as well as by the internal security team

- **Open source contributions** — *Winter 2009 - Present*

- GCC contributor since July 2013 focused on improving code maintainability, and enabling other contributors to be effective
- Helped with C++ conversion work and adding features useful to Mozilla to Binutils and GDB
- Other projects include AT-SPI2, GTK, Speech Dispatcher, RR, and Orca
- Github <https://github.com/tbsaunde>

- **Intern / contractor** — *Summer 2011 - spring 2012*

Mozilla Corporation

- Worked on accessibility API implementation