

Matthew Gingell

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Experience

- 2015 - Present** **Google**, Software Engineer, Kirkland, WA
- Security engineering for the Google Cloud Platform, including work on virtualization features in the Linux kernel and internal key management infrastructure.
- 2012 - 2015** **Amazon.com**, Software Development Engineer III, Seattle, WA
- Technical lead for Amazon Escrow. Escrow is a risk mitigation technology for customer-to-customer and third-party transactions on the Amazon platform.
 - Technical lead for automated opinion fraud detection on Junglee.com.
- 1999-2012** **AdaCore Technologies**, Senior Software Engineer, New York, NY
- Maintain, extend, and support AdaCore's GNAT Pro development environment. This included work on the GNU Compiler Collection (GCC) backend, the GDB debugger, the GNU linker and assembler, the runtime environment, and the Ada compiler itself.
 - Developed a C/C++ to Ada binding generator. See `gcc -fdump-ada-spec`.

Education

- 1997-2001** **New York University**, New York, NY
- Bachelor's Degree, Computer Science

Other Projects

- Author of *Chesley the Chess Engine*. Chesley is 12K lines of C++ with an Elo rating of around 2200, roughly in the National Master range as defined by the United States Chess Federation. Chesley implements many state of the art computer chess and artificial intelligence techniques, included rotated bitboard move generation and corpus based learning. Please see <https://github.com/matthewgingell/chesley>

Skills

- Extensive experience programming in C, C++, and Java.
- Extensive experience with Unix system programming, including work on GCC, GDB, and the rest of the GNU toolchain.