Kamal Marhubi

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SKILLS
Python, Java, C++, SQL, Rust
Some experience in C, Haskell, JavaScript (ES2015)

EDUCATION
McGill University

MSc — 2007–2009
Computer Science

BSc Hons — 2001–2006
Applied Math, Physics

EXPERIENCE
Google, Software Developer
Montreal, QC — 2013–2015

Worked on Safe Browsing, the malware detection system behind the 'this site may harm your computer' warnings in Chrome, Firefox and Safari.
- Designed and implemented a service to facilitate manual reviews of potential malware
- Integrated a Datalog derived query engine into the detection pipeline, enabling the team to react more quickly to new malware families
- Took part in an on-call rotation to respond to incidents in our systems

McGill University, Course Instructor
Montreal, QC — 2011

Taught the the Compiler Design course to a class of graduate and upper-level undergraduate students.

Morgan Stanley, Software Developer
Montreal, QC — 2009–2011

Developed tools to support the company's finance team in managing financial reporting.
- Played key role in design and implementation of an approval workflow project that earned a CFO award as the best Finance IT project of 2010
- Managed and mentored a summer intern
- Took part in campus recruiting efforts, winning a 'Most Active Interviewer' award

PROJECTS
I took a year-long sabbatical (2015–2016) for self-study and working on open source.

- Attended the Recurse Center, a 12-week retreat for programmers to engage in self-directed learning
- Contributed to open source projects, including Cap'n Proto, and several projects in the Rust ecosystem
- Became a maintainer for nix, a Rust library for systems programming on UNIX-like systems

Selected projects
- Computers Are Fast, a quiz game to help understand how much of various tasks a computer can do in a second (in collaboration with Julia Evans)
- ruby-stacktrace, a program that gets stacktraces from a running Ruby process without instrumentation or interruption (in collaboration with Julia Evans)
- rust-bisect, a tool to speed up finding when Rust introduced a change or regression by using nightly builds
- lsaddr, a Linux utility to list IP addresses one per line
- JSON parser for the Cap'n Proto project