MANU GOYAL

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manugoyal.com

EXPERIENCE

Carnegie Mellon University   2013

- Worked with Dave Andersen on libcuckoo, a high-speed, memory-efficient, hash table designed for high levels of concurrency
- Implemented a general purpose, industrial-quality version of the table in C++
- Improved the design to support concurrent expansion and concurrent writers

MemSQL   2012, 2013

- Software engineering intern intern during summers of 2012 and 2013 working on a scalable, in-memory database
- Implemented foreign keys with referential integrity
- Contributed to the frontend dashboard
- Developed a tool to replicate between MySQL and MemSQL
- Implemented several aggregate and builtin functions
- Fixed dozens of bugs to stabilize the engine before the first public release

Carnegie Mellon University   2011-2012

- Worked with Deepak Garg to build a tool that can automatically find violations in patent privacy policies like HIPAA
- Implemented a concurrent policy-checking algorithm
- Created in-memory and database-backed representations of the versioned policy data structure
- Built a custom multithreaded webserver and interactive front-end

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EDUCATION

UC Berkeley   2013-2017

- Electrical Engineering and Computer Science (EECS)

Carnegie Mellon University   2012

- GPA: 4.00/4.00
- 15-151: Mathematical Foundations for Computer Science
- 15-122: Principles of Imperative Computation

SKILLS

Programming Languages
C, C++, Python, SQL, Go, HTML, Javascript, CSS, Haskell, OCaml, Java, x86 Assembly

Frameworks/Servers
MySQL, Tornado, net/http, AJAX/JSON, jQuery, Backbone.js

Software
Emacs, Vim, GDB, Git, Microsoft Office, Adobe CS

STATUS

Full time student
Citizen of United States

HONORS

National Merit Scholar
National AP Scholar
National Honor Society