

MANU GOYAL

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EXPERIENCE

Google

2014

- Software Engineering Intern on Dremel, a high-performance SQL query engine for web-scale data analysis.
- Developed a new type of lookup join for joining a large partitioned table and a smaller table where a hash join would incur too much overhead
- Implemented a lookup table on top of Google's in-memory data store capable of high distributed read and write throughput to execute the lookup joins quickly

UC Berkeley AMPLab

2014-Present

- Working with Haoyuan Li on Tachyon, a fault tolerant distributed file system enabling reliable file sharing at memory-speed across cluster frameworks, such as Spark and MapReduce
- Redesigned and optimized the filesystem metadata manager
- Fixed numerous engine and user interface bugs

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

- Worked 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
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EDUCATION

UC Berkeley

2013-2017

- Electrical Engineering and Computer Science (EECS)
 - GPA: 3.925
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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