

# MANU GOYAL

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## EXPERIENCE

### Google

2014-Present

- Software Engineering Intern working on Dremel, a high-performance SQL query engine for web-scale data analysis.

### 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: 3.925/4.00
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## SKILLS

## STATUS

### Programming Languages

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

Full time student  
Citizen of United States

### Frameworks/Servers

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

## HONORS

### Software

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

National Merit Scholar  
National AP Scholar  
National Honor Society