

MANU GOYAL

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EXPERIENCE

- Jane Street** 2016
- Intern on the software engineering side
 - Built an event handler that significantly improved the speed and memory usage of order execution nodes
 - Designed and implemented a heuristic tool for monitoring interesting options trades
- Dropbox** 2015
- Intern on the Dropbox for Business team
 - Implemented permissions model for nested shared folders
 - Performance and stability improvements to critical server endpoints
- UC Berkeley AMPLab** 2014-2015
- Working with Ion Stoica on Tachyon, a fault tolerant distributed file system enabling reliable file sharing at memory-speed across cluster frameworks, such as Spark and MapReduce
 - Implemented fine-grained caching for columnar data
- Google** 2014
- 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 distributed in-memory data store to implement the join
- Carnegie Mellon University** 2013
- Worked with Dave Andersen on libcuckoo, a high-speed, memory-efficient, hash table designed for high levels of concurrency
 - 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
 - Developed a tool to replicate between MySQL and MemSQL
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EDUCATION

- UC Berkeley** 2013-2017
- Electrical Engineering and Computer Science (EECS)
 - GPA: 3.98
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SKILLS

Programming Languages

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

Software

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

STATUS

Full time student
Citizen of United States

HONORS

National Merit Scholar
National AP Scholar