Jason Priest

For more information on my projects and experience, visit https://jpriest.me/

| Education | Massachusetts Institute of Technology | 2019 – 2020 |
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| | Masters of Engineering in EECS | |
| | Massachusetts Institute of Technology | 2015 – 2019 |
| | Bachelors of Engineering in EECS | |
| | › Technical GPA: 4.54 | |
| | > Coursework | |
| | 6.828 (Operating Systems) 6.046 (Algorithms) 6.035 (Compilers) | |
| | 6.851 (Advanced Data Structures) 6.886 (Graph Algorithms) | |
| | 6.172 (Performance Engineering) 6.830 (Databases) 6.UAT (Technical Communication) 6.033 (Computer Systems) | |
| | SaveTFP – President of Student Community Service Club | 2016 – Now |
| | Varsity Athlete – Men's Lightweight Crew Team | 2015 - 2016 |
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| Experience | Broadway Technology | Summer 2018 |
| | Developed backend for new financial instrument on a platform connect | ting different |
| | types of financial institutions | |
| | > Profiled, benchmarked, and tested optimizations in C++ codebase Ab Initio | Summer 2017 |
| | Ab fillio | Summer 2017 |
| | Developed new optimizations within an existing compiler framework | |
| | Developed, found bugs, and extended tests in large C++ codebase | |
| | MIT Lincoln Laboratory | Fall 2016 |
| | › Performed research in reverse engineering and simulating PowerPC Li | nux wireless |
| | access point | |
| | Touchplan.io | Summer 2016 |
| | > Implemented high-availability, online upgrading, and improved cooper | |
| | for a Java and PostgreSQL backend server with Apache Mesos and Zool Helped introduce continuous delivery systems using Atlassian Pipeline | |
| | Performed data analytics using PostgreSQL and Domo.com | 3 |
| | | |
| Projects | RADS github.com/JustAPerson/rads | Rust 201 7 |
| |) Implementation of advanced data structures and algorithms for 6.851 | |
| | Vector with O(lg²n) insertion anywhere rather than O(n) | |
| | > Strict Fibonacci heap with non-amortized bounds | |
| | Cache-oblivious sorting algorithm MITscript | Rust 2017 |
| |) Implementation of dynamic language for 6.035 | Rust 2017 |
| |) Mark-sweep GC and JIT compiler using LLVM | |
| | Denuos github.com/JustAPerson/denuos | Rust 2016 |
| | > Toy x86-64 operating system learning experiment | |
| | > Basic virtual memory, interrupt, and syscall interface | |
| | LBI github.com/JustAPerson/lbi | Lua 2013 |
| | Basic implementation of the Lua virtual machine | |
| | › Accurately emulates nearly all valid Lua bytecode sequences | |
| | MODS github.com/JustAPerson/mods | Lua 2011 |
| | Assembler for Lua bytecode format Syntax permits labels and instruction-like macros | |
| |) Symax permus labers and mish uchon-like macros | |
| Skills | Programming Experience | |
| CICIIO | › Languages: C, C++, Python, Java, PostgreSQL, Rust, Lua, x86 Assembly | |

- › Languages: C, C++, Python, Java, PostgreSQL, Rust, Lua, x86 Assembly
- > Tools: git, perforce, svn, make/cmake, gcc/clang, ld, gdb, vim/emacs, valgrind, perf
- › Operating Systems: Windows, Mac OS X, Ubuntu, Arch Linux