isundaylee

Jiahao Li

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mandarin/english

education

2018-2019 **Massachusetts Institute of Technology, Cambridge, MA** Master
Pursuing a M.S. in Computer Science and Engineering.
Relevant courses: Computer Networks, Database Systems.

2014-2018 **Massachusetts Institute of Technology, Cambridge, MA** Undergraduate
B.S. in Computer Science and Engineering. GPA 5.0/5.0.
Relevant courses: Advanced Performance Engineering, Distributed Systems, Operating Systems, Design and Analysis of Algorithms, Advances in Computer Vision, Advanced Natural Language Processing.

technical skills

Set I **Programming languages (each used for more than 3 years)**
C++, Ruby, Python, Objective-C, Java

Set II **Web and native app development**
Ruby on Rails, iOS app development with Swift/Objective-C, PHP

Set III **Data structures and algorithms knowledge and research experience**

internships & projects

2018 **Facebook - Software Engineer Intern** https://facebook.com
Created a parser library for the Thrift compiler, and two code linters for the Thrift language.
Designed and implemented a plugin system for Thrift that enables custom extensions to the compiler.

2017 **Instagram @ Facebook - Software Engineer Intern** https://instagram.com
Implemented optimizations that reduced server memory usage per request served by 12% and server CPU usage per request served by 5%, and increased request capacity per server by 10%.

2017 **EECS Research and Innovation Scholar – MIT SuperUROP Research Program** https://superurop.mit.edu
Implemented optimization passes in Rhino – an LLVM-based compiler aiming to better optimize parallel program across languages and parallel frameworks. Reduced runtime for up to 20% in certain benchmarks.

2016 **Pure Storage - Software Engineer Intern** https://purestorage.com
Optimized write path throughput performance for data being replicated between arrays.
Implemented changes that enabled an increased number of replication pairs to be set up on a single array.

2015 **Pure Storage - Software Engineer Intern** https://purestorage.com
Implemented the bandwidth shaping and batch restoration features for cross-array data replication.
Designed and implemented a transaction framework for atomically updating array database.

2015 **The MIT Tech - Designer & Coder** https://thetech.com
Designed the new website and backend CMS for The Tech – MIT's oldest and largest newspaper.
Built in Ruby on Rails with a Varnish + Nginx architecture on Amazon AWS (using EC2, RDS, and S3).

major honors & awards

2011 28th China National Olympiad in Informatics, Gold Medal
Selected into IOI China National Team Training Camp

leadership

2015-2018 **The MIT Tech - Technology Director**
Led the development of the new website of MIT's oldest and largest campus newspaper.
Adapted the publishing production workflow to work with the new content management system.