

Zeyuan Hu

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EDUCATION

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| University of Texas | Austin, TX | Sept 2017 – May 2019 |
| <ul style="list-style-type: none">• M.S. in Computer Science. (GPA: 3.81/4.00) | | |
| University of Wisconsin | Madison, WI | Sept 2010 – Dec 2014 |
| <ul style="list-style-type: none">• B.A. in Computer Science. (GPA: 3.74/4.00)• B.A. in Economics with Honors. (GPA: 3.85/4.00)• B.A. in Mathematics. (GPA: 3.81/4.00) | | |

WORK EXPERIENCE

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| Cloud Architect Engineer
Omnia storage team | State Street Financial Service | June 2019 – Current |
| <ul style="list-style-type: none">• Work on internal object storage performance | | |
| Software Engineer Internship
HPC infrastructure team | Schlumberger | May 2018 – August 2018 |
| <ul style="list-style-type: none">• Implemented a monitoring component of the in-house High-Performance Computing (HPC) engine in <u>C++</u> to provide the fault tolerance and handle the “straggler” problem• Employed SGD algorithm to dynamically learn the best timing for backup executions of the in-progress tasks based on the computation task characteristics• Built a <u>C++</u> code generator that automatically generates the application layer code based on the engine API | | |
| Software Engineer
Db2 LUW federation team | IBM | August 2015 – August 2017 |
| <ul style="list-style-type: none">• Constructed <u>Hive</u> and <u>Impala</u> wrappers with <u>C++</u> and <u>Java</u> to support federation database between traditional RDBMS and Hadoop-based data warehouse solution• Created automated setup tools with <u>Shell</u> that reduce product configuration time by 75%• Enhanced server option optimization tools using <u>C</u> to reduce federation database performance tuning time by 90 % and enable the capability of tuning the product against Hive, Impala, and Spark• Resolved over 20 defects, including a severe memory leak issue that impacted a \$1.6 million deal. <i>Awarded IBM Manager’s Choice Award 2016</i> | | |

SELECTED PROJECTS

- **RustFS** (2018 -). Building a user-space file system that leverages NVMe SSD. Rust, SPDK
- **Strata with Lease** (2018). Extended Strata file system with Lease mechanism to support concurrent file access across processes. C.
- **HyperPebblesDB** (2018). Constructed a key-value store that is part of LevelDB family with focus on reducing write amplification. C++, CMake, Autotools
- **Distributed Key-Value Store** (2018). Built a distributed key-value store with Python that uses *eventually consistency* model with two session guarantees: *Read Your Writes* and *Monotonic Reads*.

LANGUAGES AND TECHNOLOGIES

- **Languages:** C++, C, Python, Rust, Shell, SQL, Java, Lisp, MATLAB
- **Software:** CMake, Autotools, Git, Docker, Ansible, QEMU, Tensorflow, Keras, ClearCase, Hive, Impala, Maven, Hadoop