##### **Sixian Hong**

My contact information can be found at: http://www-personal.umich.edu/~hongsx

**OBJECTIVE**

Seeking Software Engineering Intern between May 2016 and Sep. 2016

**TECHNICAL SKILLS**

* Proficient in C/C++, Java, Matlab, Swift, SQL, LabVIEW, Latex, Git
* Familiar with HTML, OpenMP, MPI, Python, Verilog, and JavaScript

**EDUCATION**

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| **University of Michigan** | Ann Arbor, MI |
| **M. S. E., Computer Science and Engineering** | Dec. 2016 |

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| * **GPA** | **4.00/4.00** |
| * Related Courses | Database Management System, Parallel Computing, Artificial Intelligence |
| * Taking | Algorithms, Machine Learning, Statistics |

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| **Shanghai Jiao Tong University** | Shanghai, China |
| **B. S. E., Electrical and Computer Engineering** | Aug. 2015 |

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| * **Core GPA** | **3.91/4.00** |
| * Related Courses | Data Structure & Algorithm, Computer Org., Discrete Math, Probability |

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| **University of Michigan** | Ann Arbor, MI |
| **B. S. E., Biomedical Engineering** | Apr. 2015 |

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| * **GPA** | **3.94/4.00** |

**PROJECTS**

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| **Parallel Computing Using Multiple iOS devices** |  |
| iOS, Parallel Computing, Multithreading | University of Michigan, Fall 2015 |

* Designed a protocol for linking different iOS devices together as distributed-memory parallel computers
* Implemented a traveling salesman problem solver App on iOS devices using the protocol
* Achieved a speedup of 1.877 for using two devices compared with running on single device

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| **OpenCL Accelerated Application Control Based on Kinect Depth Data Processing** |  |
| C++, OpenCL, Machine Learning, Linux Application | SJTU, Summer 2015 |

* Utilized depth data acquired from Kinect to decode gestures, and then control an OpenGL particle system
* Accelerated depth data processing by 13 times while lowered CPU usage by 24%

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| **Simple Social Network Relational Database Design and Application** |  |
| SQL, Java | University of Michigan, Fall 2015 |

* Designed a simplified social network relational database using SQL
* Accessed the data stored in the database using Java

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| **Property-Based Spike Sorting Using Machine Learning** |  |
| Machine Learning, Statistics, Matlab, Data Processing | University of Michigan, 2014-2015 |

* Implemented an algorithm to select meaningful properties by unsupervised learning
* Applied k-means algorithm to cluster similar spikes together based on the unsupervised learning result
* Innovated statistical method to rearrange outliers by comparing to different groups’ properties and shapes
* Achieved an accuracy of 99% for 12dB Signal-to-Noise Ratio simulated data