BENJAMIN **LI**

Computer Engineer

liben002@bu.edu
https://github.com/liben002
(774) 502-1496
829 Beacon St. Apt 4C, Boston MA 02215

Education

Boston University
B.S. in Computer Engineering
B.S. in Electrical Engineering
GPA 3.84
Dean's List *(all semesters)*
Sep 2018 – May 2022 *(exp.)*

Boston Latin School
GPA: 4.0
Sep 2014 – May 2018

Coursework

Embedded Systems
Computer Architecture
Operating Systems
Data Structures & Algorithms
Software Design
Semiconductor Physics
Computer Networking
Electronics

Skills

Languages
C/C++ *(including kernel)*
Verilog
Java
Python

Technologies
Hardware
Linux
Vivado
Git
Jenkins
Kubernetes

Honors & Awards

SC20 Cluster Competition
Top 10 LINPACK Nov 2020
Team Captain

Hack the Heights
First Place Apr 2019

Codestellation
Judges' Pick Nov 2019

Experience

Hewlett Packard Enterprise **Andover, MA**
DevOps & Software Engineering Intern May 2020 – *Present*
- Completed development and implementation effort of CI/CD roadmap in support of Infosight's Big Data Service, includingstanding up Jenkins, Artifactory, and Kubernetes
- Spearheaded service delivery migration to container-based model through Kubernetes and automated deployment withJenkins-Helm integration
- Engineered micro-services for ingestion of raw server statistics from HPE On-Premise collector using Java, Kafka Streams,and shell scripting
- Assisted Junior Dev Team in construction of Ansible suite to automate administration and deployment of CentOS servercluster through vSphere

Boston University Integrated Circuits & Systems Group **Boston, MA**
Undergraduate Hardware Researcher Jan 2020 – May 2020
- Implemented basic vector operation capabilities to Blackparrot, a linux-capable accelerator host multi-core CPU, usingVerilog as part of a research team
- Synthesized and quality tested vector components through generated waveforms using Vivado

Rocket Software **Waltham, MA**
Software Engineering Intern Jun 2019 – Dec 2019
- Modernized an IBM Zowe (Mainframe OS) data recovery service to leverage the Java Spring Framework instead of rawservlets for integration with REST API
- Developed an IBM Zowe infrastructure configuration service using JS and Java in collaboration with full-stack team

Projects

Raspberry Pi Computing Cluster, Boston University High Performance Computing
10-node Raspberry Pi cluster, networked over Ethernet with a single controller/login. The cluster is currently being run for protein-folding workloads, and was previously deployed during HPCBoston, a super-computing hackathon, where custom DC power supplies were used for power management. Coordinated club members to design and build cluster, as well as soldered custom DC power supplies for individual nodes.

WikiWhere, Personal *wikiwhere.ciliber.to/* *wikiwhere/wikiwhere*
Graph-based visualization of hyperlink connectivity among Wikipedia articles. Optimized shortest path algorithm by implementing a multi-threaded, bi-directional, Breadth-First Search of Wikipedia data dumps. Implemented with OpenMP, C++ and SQL for application backend, and d3 for frontend graph visualization.

Comotium, Personal *Comotium*
Form-filling mobile application that helps underprivileged users fill out important federal documents through voice activation. Questions on the relevant form are discovered via several Machine Learning image maps and asked to the user. Developed backend integration of voice-to-text conversion with frontend text alignment using Rev.AI.

Leadership

Boston University High Performance Computing Club **Boston, MA**
Co-President Sep 2018 – *Present*

Boston University Algorithmic Competition Club **Boston, MA**
Co-Founder January 2021 – *Present*