BENJAMIN **LI**

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https://github.com/liben002
https://benjaminli.site

Education

Boston University
B.S. in Computer Engineering
B.S. in Electrical Engineering
GPA: 3.87/4.0 *(Dean's List)*
Sep 2018 – May 2022 *(exp.)*

Relevant Courses

Computer Architecture
Computer Organization
Semiconductor Fabrication
Embedded Systems
Computer Networking
Data Structures & Algorithms
Semiconductor Physics

Skills

Languages
C/C++
Java
Verilog
Python

Technologies
Linux
Git
PCB Design
RTL Design

Competitions

SC21 Cluster Competition
Team Captain
Top 3 Benchmarking
Nov 2021

International Collegiate Programming Contest
Co-Captain
Regionals
Jan 2021

SC20 Cluster Competition
Team Captain
Nov 2020

Codestellation
First Place
Nov 2019

Hack the Heights
First Place
Apr 2019

Experience

Microsoft **Redmond, WA**
Software Engineering Intern May 2021 – Aug 2021
- Developed Windows application to facilitate automated bulk file uploads to Azure Digital Asset Management using .NET WPF and internal Microsoft APIs
- Collaborated with Data Center Construction team to identify core business functionality that application would need to provide, and designed overall software architecture
- Revamped previously absent API documentation

Hewlett Packard Enterprise **Andover, MA**
DevOps & Big Data Software Engineering Intern May 2020 – *Present*
- Built Ingest Microservice for collection of data-center statistics from HPE RDA Domino using Java, Kafka Streams, and shell scripting.
- Spearheaded effort in developing and implementing CI/CD roadmap for Infosight Big Data service, including integration with Jenkins, Artifactory, and Kubernetes.

Boston University Integrated Circuits & Systems Group **Boston, MA**
Undergraduate Hardware Researcher January 2020 – May 2020
- Created vector extension capabilities to Blackparrot, a linux-capable accelerator host multicore CPU, using Verilog for architecture implementation.

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 raw servlets for integration with REST API.

Projects

drugML, Personal, In-Progress *https://drugml.site* *drugML*
Research tool that predicts drug-disease relation based on molecular properties. Consists of a decoupled React front-end and Flask back-end, with a CI/CD process to automate data ingestion. Developed as a collaboration with two other classmates. Engineered deep learning model using Tensorflow and back-end API using Flask. Currently hosted on AWS.

uDrop-Generation, Computation Synthetic Biology Group Project *uDrop-Generation*
Worked with research team to improve microfluidic droplet detection of uDrop-Generation application through the use of filters and edge-detection fine-tuning algorithms. Responsible for threshold research, implementation, and integration into existing code base. Currently being used in the CIDAR Lab.

WikiWhere, Personal *https://wikiwhere.rciliberto.com/* *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 article data. Developed with OpenMP, C++ and SQL for application backend, and D3 for frontend graph visualization.

Leadership

Instructor, CS200 Applied Problem Solving May 2021 – *Present*
President, Boston University High Performance Computing Club Apr 2020 – *Present*