

# BENJAMIN LI

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## Education

**Boston University College of Engineering**  
*Bachelor of Science in Computer Engineering*  
*Bachelor of Science in Electrical Engineering*  
GPA 3.86/4.0 | Dean's List (*all semesters*)

**Boston, MA**  
May 2022  
May 2022

## Experience

### Microsoft

*Software Engineering Intern*

**Redmond, WA**

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 and published to knowledge base

### Hewlett Packard Enterprise

*DevOps/Software Engineering Intern*

**Andover, MA**

May 2020 – Dec 2020

- Completed development and implementation effort of CI/CD roadmap in support of Infosight's Big Data Service, including standing up Jenkins, Artifactory, and Kubernetes
- Spearheaded service delivery migration to container-based model through Kubernetes and automated deployment with Jenkins-Helm integration
- Engineered micro-services for ingestion of raw server statistics from HPE On-Premise collector using Java, Kafka Streams, and shell scripting

### Boston University Integrated Circuits & Systems Group

*Undergraduate Hardware Researcher*

**Boston, MA**

Jan 2020 – May 2020

- Implemented basic vector operation capabilities to Blackparrot, a linux-capable accelerator host multi-core CPU, using Verilog as part of a research team.
- Synthesized and quality tested vector components through generated waveforms using Vivado.

### Rocket Software

*Software Engineering Intern*

**Waltham, MA**

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.
- Developed an IBM Zowe infrastructure configuration service using JS and Java in collaboration with full-stack team.

## Projects

**drugML**, Personal

<https://drugml.xyz>  [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.

**Raspberry Pi/Jetson Computing Cluster**, BU High Performance Computing

14-node mixed Raspberry Pi/Jetson Nano cluster, currently being run for protein-folding workloads. Coordinated club members to build cluster, soldered custom DC power supplies for individual nodes, and oversaw cluster management.

**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

**Co-Captain**, Boston University Competitive Programming Team

January 2021 – Present

**President**, Boston University High Performance Computing Club

Apr 2020 – Present