

Luke Li  
105 Sandlewood Dr, Madison, CT, 06443  
[yihengli1998@gmail.com](mailto:yihengli1998@gmail.com); Cell: 203-491-9238

## Education

2016-2020, B.S. in Computer Science and Applied Mathematics  
Brandeis University, Waltham, Massachusetts

## Work Experience

Developer, HCL Industries

Dec 2020- June 2023

- Light and Wonder
  - Installed applications on Azure Cloud resource groups created for clients and used Linux (and FileZilla) to configure the installation
  - Worked with a few SAAS for various casino clients, either remote or onsite to setup and troubleshoot these software.
  - Used MS SQL Server to create users and run queries for debugging, as well as Azure Cloud for app deployment, installers and setup files were transferred using FileZilla
- Stanley Black and Decker
  - Worked on ticket resolutions, deployed changes onto production website and testing stages, enhanced website through Acquia Cloud
  - Tested website for bugs after deployments
- Worked with VTEX to resolve ticket issues customers faced with the website

Intern, FDable, Hartford, CT.

June 2019- August 2019

- Used Python to build a text classification ML model
- The built model classifies large quantities of user reports/narratives regarding medical device issues, the excel data was provided by the FDA

Intern, Department of Energy and Environmental Protection, Hartford, CT. June 2018- Aug 2018

- Built a VBA for Excel application from scratch which automates all the criteria checking required for the mass data the aquatic toxicity department collects, the form/app calculates risks, determines criteria and prints it in a neat format

Intern, Yale West Campus Nano-Scale Imaging Lab, New Haven, CT. Aug 2017- Sept 2017

- Developed a program using Python for processing bulk grayscale images from Low Energy Electron Microscope (LEEM) to generate a work function mapping
- Developed imaging processing program using Python to convert calculated crystal structure data to simulate Scanning Tunneling Microscopy (STM) imaging

Intern,

Yale West Campus Materials Characterization Core, New Haven, CT. June 2017- Sept 2017

- Developed Window based software in Visual Basic for camera navigation system in Scanning Electron Microscope (SEM)
- Finished the SolidWorks design on camera navigation system for SEMs, in which the camera is accessed utilizing the above software

Intern,

Yale West Campus Materials Characterization Core, New Haven, CT. June 2016 – Aug 2016

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- Learned SolidWorks and used it to design a camera navigation system for SEM

## Skills

- **Java**
- **Python**
- **SQL**
- **Microsoft Azure Cloud**
- **Linux**
- **Drupal**
- **Visual Basic**
- **Visual C#**
- **MATLAB**
- **C# .NET**
- **Others:** SolidWorks, Office (Word, PPT, VBA in Excel), Sony Vegas Pro, Scheme (Functional programming language)

## Additional Work Experience

### Research Assistant

Western Jihadism Project by Professor Klausen, Brandeis University. Feb 2018- June 2018

- Familiarized PostgreSQL and Django to help add a secure database feature on the WJP django server which contains all the data they work with and modify
- Familiarized with Unix, Github and secure file sharing via VPN's and making private keys

### Teaching Assistant

Brandeis University Computer Science Dept., Waltham, MA.

Sept 2019- Dec 2019

- Held office hours to address questions, explain material in class, and grade homework assignments
- Discussed homework submission structure

### Teaching Assistant

Brandeis University Computer Science Dept., Waltham, MA.

Oct 2017- June 2018

- Graded homework assignments

## Projects/Competitions

- Built a web application that allows users to register, connect and chat with each other, including profile and photo upload functionalities
- 126<sup>th</sup> place (currently) in Kaggle competition: *ASHRAE - Great Energy Predictor III* of over 3000 contestants (Team name: Project Skynet) in Python, using LightGBM (Gradient boosting algorithm in Machine Learning), data leakage, blending and bagging.
- Created a next word predictor in Python using n-grams, LSTMs (Long Short Term Memory neural network), with sentiment analysis yet to be implemented.
- Built a speaker recognition program in MATLAB that can distinguish unique speakers when they speak into the microphone and transcribe what they said.

## Awards

- Middlesex County Mathematics League Award, CT, 2015
- Honorable Mentions in the Future Choices Annual Shoreline Arts Alliance Juried Competition, CT, 2014