

# BEN LI

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## EXPERIENCE

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### Amazon

Software Development Engineer Intern

Vancouver, BC

tbd

- summer 2020

### Harman

Software Engineer Intern: Connected Car

Novi, MI

May - Aug 2019

[Android](#) [C++](#) [Python](#) [Java](#)

- Designed chime audio-api for android **OS**, using *binder ipc*
- Built **java** audio-app in **android source-code**, using makefiles
- Wrote **python**-interfaces for uC, supply, head-unit — used in 5,000+ automated tests
- Scripted android-firmware flasher

## PROJECTS

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### US department of energy | autonomous car

Oct 2018 - May 2019

[MATLAB](#)

- Implemented object-tracking via statistical *camera-radar algorithm* in **matlab**
- Simulated cars by building **matlab** road environment
- Conferred with GM & MathWorks on team's algorithms & sensors/controllers

### robo whiteboard [↗](#)

Jan 2019

[Python](#) [OpenCV](#) [NumPy](#)

- Simplified input-images, by writing **python** image-processing algorithms
- Drew images by implementing a graph-search algorithm
- Automated whiteboard by co-developing **motor/c++** interface
- Made **demo** for 700 students

### web, ml, cloud

Aug 2019 - Sep 2019

[GCP](#) [Azure](#) [fastAI](#) [HTML](#) [CSS](#)

- Experimented with machine-learning, using **Google Cloud** to train neural nets
- Developed [benli.design](#) (website) & embedded a python *drawing algorithm*
- Built cloud-hosted **Azure** IOT Hub to graph remote sensor-data

## EDUCATION

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### McMaster University

B.Eng. Computer Engineering

Hamilton, ON

Sep 2017 - May 2022

IEEE McMaster, Vice Chair of Computer Branch

- Managing **supply chain** for ECE department's course-kits

McMaster Engineering Competition, Organizer

- Judged, developed, and hosted two competitive engineering events

## AWARDS

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2019 <a href="#">↗</a>	Finalist & top 11/400	Hack the North ( <i>Canada's biggest hackathon</i> )
2019 <a href="#">↗</a>	3 <sup>rd</sup> /200 & <i>Forge Technology</i> Award	DeltaHacks V ( <i>MLH, McMaster</i> )
2018 <a href="#">↗</a>	Wolfram Alpha Sponsor Award	York U Hacks
2017 <a href="#">↗</a>	Top 2% in Engineering Class of 2021	IMPACT ( <i>McMaster</i> )