





LINDA ZHENG

 Linda.Zheng1@uwaterloo.ca
 [thelindazheng.github.io](https://github.com/thelindazheng)
 github.com/thelindazheng
 linkedin.com/in/thelindazheng

EDUCATION

Software Engineering 2018 – 2023

University of Waterloo

- 94.6% cumulative average
- Dean's Honour List

SKILLS

Languages: Python, C/C++, Go, Java, SQL, JavaScript, HTML/CSS, Scala, VHDL, MATLAB

Tools: Android Studio, React, TensorFlow, Amazon S3, Solr, Grafana, Prometheus, Firebase, Git, Vim, Arduino

AWARDS

2019 SheHacks III Best Hackathon Design

2017, 2018 ECOO Programming Contest City-Wide Top Female Team

2015 ~ 2018 American Invitational Mathematics Examination (AIME) Qualifier

2018 Euclid Top 5% in Canada

2018 ARML Team Canada

2016, 2017 MIT Math Prize for Girls Qualifier

2016, 2017 Canadian Open Mathematics Challenge (COMC) Repêchage Qualifier

2016 American Mathematics Contest (AMC) 10A Top Female in Canada

2018 DELF B2

WORK EXPERIENCE

Context Logic, Data & Relevancy Engineering Intern May 2019 – August 2019

- Developed logic to summarize titles for the ProductBoost recommendation engine using **Go**, *increasing related product feed impressions by 5%*
- Wrote **Python** scripts to gather data from **Treasure Data**, **MongoDB** and **Solr** to tune the recommendation engine, *increasing ProductBoost GMV by 1%*
- Launched and analysed **A/B testing** results using **HiveQL** in **Treasure Data** to confirm improvements
- Built a Python package which collects **Amazon S3** data for real-time Solr updates and wrote accompanying **unit tests**

PROJECTS

MNIST Handwritten Digit Recognition

- Trained a **neural network** to recognise MNIST digits using **TensorFlow**
- Developed **convolutional layers** and optimized the neural network, *achieving 99.2% accuracy*

Vertically Scrolling Music Player

- Decoded MP3 data using PyDub and Librosa
- Discretized and normalized amplitudes of sound waves using **NumPy**
- Integrated **Firebase Cloud Firestore** to store the results of data processing

HTBC Badminton Club Web Development

- Created an online photo gallery, *boosting website views by 8%*
- Implemented a search bar using **Google Visualizations API Query Language**
- Developed an automated e-registration system using **JavaScript**

Smartphone Controlled Drone

- Built an app which sends HTTP requests to control the drone remotely using **Android Studio**
- Programmed a web server on a **NodeMCU** using C
- Designed the wiring and soldered the components of the drone

VOLUNTEER EXPERIENCE

Operation Med School, Ottawa Co-president Dec 2016 – May 2018

- Organized the inaugural Ottawa-region conference for **180+** students
- Raised **\$5K+** in sponsorships and a free venue by contacting various businesses

DECA, Colonel By DECA Club Co-president May 2017 – May 2018

- Led workshops to prepare **150+** club members for business competitions
- Planned and supervised a three-day trip to the provincial case competition