

LINDA ZHENG

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SKILLS

Languages: C/C++, Java, Python, HTML, CSS, JavaScript, VHDL

Tools: Eclipse, Git, Vim, LaTeX, Android Studio, Visual Studio, TensorFlow, Bootstrap

Systems: Ubuntu, Windows, Arduino (UNO, ESP8266, NodeMCU)

EDUCATION

Software Engineering

2018 – 2023

University of Waterloo

(94.3% cumulative average)

AWARDS

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

2015 ~ 2018 American
Invitational Mathematics
Examination (AIME) Qualifier

2016, 2017 MIT Math Prize for
Girls Qualifier

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

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

2018 Math Kangaroo Third
Score in Canada

2018 Euclid Top 5% (Score of
87) in Canada

2018 ARML Team Canada
Member

2018 Royal Conservatory of
Music Grade 10 Diploma with
First Class Honours

2018 IB Diploma (7s in HL Math,
HL Physics, HL Chem, HL Bio)

2017 DELF B2 (Score of 82)

2017 SHAD Alumni

PROJECTS

Smartphone Controlled Drone

Sept 2018 – Present

- Built an Android app to control the drone remotely using Java on Android Studio
- Programmed a web server on a NodeMCU which communicates with an Arduino UNO using C
- Designed the wiring and soldered the components of the drone

MNIST Handwritten Digit Recognition

July 2018 – Present

- Studied and analyzed *convolutional neural networks*
- Trained a neural network to recognise handwritten digits using TensorFlow
- Developed Python-based convolutional layers and optimized training which achieved **99.2% accuracy**

HTBC Badminton Club Web Development

Sept 2014 – June 2018

- Created an online photo gallery with the marketing team which **boosted website views by 8%**
- Implemented a search bar using *Google Visualizations API Query Language*
- Developed an automated e-registration system using JavaScript

EXPERIENCE

Operation Med School, Ottawa Co-president

Dec 2016 – May 2018

- Led a team of 10 high school students to organize the inaugural Ottawa-region full-day conference for **over 180 students**
- Raised **over \$5K** in sponsorships and secured a free venue by contacting various businesses

DECA, Colonel By DECA Club Co-president

May 2017 – May 2018

- Organized weekly seminars to prepare **over 150 club members** for business case competitions
- Planned and supervised a three-day trip to the provincial case competition

The Ottawa Hospital, Volunteer Shift Leader

June 2016 – Dec 2017

- Delegated information desk and gift shop duties to other volunteers to meet the visitors' needs
- Trained new volunteers in patient look-up software and cash register operations to ensure that quality service is provided