

# Zhiming Lin

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## SUMMARY

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- Proven experience in software development and full-stack development in Java and JavaScript.
- Demonstrated experience with front end framework and back end framework such as React, Node.js.
- Proficient and solid knowledge in data structure, algorithms, computer network, software engineering and machine learning.
- Self-motivated and team-oriented problem-solver with excellent skill in communication and development.

## SKILLS & AWARDS

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- Programming Languages: Java (4+ years), JavaScript (3+ years), Python (3+ years), SQL (3+ years), C++ (0.5 year)
- Full stack: React/Redux, Node.js, JavaScript, TypeScript, HTML5, CSS3, RESTful APIs, Spring Boot, MongoDB, MySQL, Firebase, H2
- Others: Git, Linux/Unix, Bash, Docker, Webpack, Android, RabbitMQ, Flask
- Data Analysis: Machine Learning Algorithms, NumPy, Pandas, Matplotlib, Keras, TensorFlow, PyTorch, scikit-learn
- Honors: Bank of China Scholarship (2017 - 2018), Macao Tai Fung Bank Scholarship (2016 - 2017)

## WORKING EXPERIENCE

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**EduShare**, Toronto, Canada

Sept. 2020 – Present

**Full stack Developer Intern**

- Implemented component-based webpages such as landing page, about-us page using React based on UI design.
- Configured and deployed sites onto [edushare.ca](#) using Netlify and maintained site git repository.
- Integrated email marketing with webpages to enable email subscription using HubSpot and ActiveCampaign.

**NetEase, Inc.**, Beijing, China

Jul. 2017 – Aug. 2017

**Software Development Engineer Intern**

- Tested and built over 100 web crawlers using Regex to fetch latest news automatically from partners for [NetEase News](#).
- Maintained more than 50 web crawlers to keep providing services for over 400 million users.

## PROJECTS EXPERIENCE

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**[React/Redux Bubble Tea Website](#)**, Waterloo, Canada

May 2020

- Designed and built responsive web application using React/Redux where users can view, customize and shop different types of tea.
- Designed and implemented interaction in login page and shopping page to improve user experience using CSS3.
- Built simple Python logging system using RabbitMQ and improved login experience using session and cookie with UUID.
- Structured the web application with Node.js as web server to handle user requests, Spring Boot as application server to connect MongoDB.
- Bundled with Webpack and Dockerized using Docker Compose.

**[REST APIs with Yelp Dataset](#)**, Waterloo, Canada

Apr. 2020

- Designed a Twitter-like social network using Yelp dataset for users posting, following other users, replying posts, etc.
- Created ER model, relational model and populated almost 10GB JSON dataset into MySQL using Python and MySQL source command.
- Designed, built and tested 15 RESTful APIs using Spring Boot for registering, accepting/rejecting friend request, refreshing, etc.

**[Android Shopping App](#)**, Waterloo, Canada

Jan. 2020 – Mar. 2020

- Built Android application including browsing items, login/logout and shopping cart functions in Java using Android Studio.
- Integrated with Google Firebase Realtime Database for listing products, storing users' information and authentication, etc.
- Created and Tested UI using Espresso Test Recorder.

**[Traffic Management System](#)**, Waterloo, Canada

Sept. 2019 – Dec. 2019

- Parsed users command using Python and C++ and applied SAT Solver to solve Vertex Cover problem.
- Performed multi-thread to run different algorithms for time complexity and accuracy comparison.
- Implemented multi-process and inter-process communication to connect Python and C++ program using fork, pipe and dup2.

## EDUCATION

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**University of Waterloo**, Canada

Sept. 2019 – Present

Meng in Electrical and Computer Engineering

GPA: 90.14 /100

**Courses:** Algorithm Design and Analysis, Methods and Tools for SE, Foundations of SE, Database Systems

**Macao Polytechnic Institute**, Macau

Aug. 2015 – Jun. 2019

Bachelor of Science in Computing

GPA: 3.63/4.0

**Courses:** Data Structure and Algorithms, Computer Networks, Operating System, Computer Security