

# WEIKE SHI

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## PROFILE

A self-starter quick learner. Passionate about **web development** and telecommunications. Excellent skills at teamwork, critical thinking, troubleshooting, and attending to details. Constantly challenging myself, always learning, and creative mindset.

## TECHNICAL & TRANSFERABLE SKILLS

- Agile Software Development
- Front-End Development
- Object-Oriented Programming
- JavaScript, HTML, CSS
- Git
- Machine Learning
- Design Patterns
- React.js
- Redux.js
- Apollo GraphQL
- Google Firebase
- Telecommunications
- Java, Python, C
- Fast Learning
- Personal Motivation
- Time Management
- Teamwork
- Research and Analytical Skills
- Communication
- Problem-solving
- Attending to detail
- Multitasking
- Critical thinking

## WORK EXPERIENCE

### 5G VERIFICATION AND SOFTWARE DEVELOPMENT INTERN

Ericsson Canada Inc.

Ottawa ON. AUG 2019 – DEC 2020

- Developed a tool using Java - BeamTracker - to verify the 5G/LTE signal's angle of arrival
- Contributed to a Machine Learning Project to auto-generate verdicts for test automation
- Tested Qualcomm's latest UE and Ericsson FDD Advanced Antenna System and improved troubleshooting skills
- Optimized data-processing code (multi-threading) with a GUI to improve efficiency by 50%
- Innovation project - Telemetry Over 5G - to demonstrate low latency using 5G network
- Practiced Agile software development, product deploying process and cycle
- Gained soft skills such as critical thinking, problem-solving, and ability to learn fast; as well as team-working and interpersonal skills.
- Worked well independently and on a team to solve problems.

### UNDERGRAD TEACHING ASSISTANT

McMaster University

Hamilton, ON. SEP 2018 – DEC 2018

- Physics Course Teaching Assistant
- Strengthened communication and presentation skills
- Developed the personality of being responsible and earnest
- Solidified academic knowledge by teaching tutorials bi-weekly

### INSTRUCTOR

Mactutor Education Group

Hamilton, ON. SEP 2017 – PRESENT

- Held 10+ review sessions for physics courses to prepare for tests and exams
- Helped more students to achieve higher grades
- Developed time management skills to complete tasks and ensure the quality of teaching
- Practiced skills to communicate effectively

## EDUCATION ELECTRICAL ENGINEERING

McMaster University

Hamilton, ON. SEP 2016 – APR 2021

- Cumulative GPA average: 4.0 / 4.0
- Dean's Honour List
- McMaster-Hong Kong International Scholarship for academic achievement
- University (Senate) Scholarship

## EXTRACURRICULAR ACTIVITIES

### E-COMMERCE F1 FAN STORE (<https://f1-fanstores.web.app/>)

- Created an E-Commerce website that sells F1 Teams merchandise
- Used React.js, Redux.js, Redux-Saga, Hooks, React Router, Google Firebase (Database and Authentication), Stripe Payments, CSS in JS, Apollo GraphQL
- Gained extensive experience in the latest React features and libraries for web development and testing
- Motivated to be a self-starter to learn new topics, eager and curious to learn more about web development

### FACEWALLET – CAPSTONE PROJECT

- Employed Microsoft Azure AI, React.js, Flask, and Stripe to enable facial recognition-based contact-free transactions at retail or online stores.
- Coordinated the team to work on the different department of tasks

### PCB DESIGNER AT MCMASTER ELECTRIC CAR TEAM

Mac Formula Electric

SEP 2017-SEP 2020

- Assisted in designing PCB boards, including a fuse box, shutdown system, and Brake System Plausibility Device (Analog circuit design)
- Improved interpersonal and team problem-solving skills with the group

### PARTICIPATED IN INFINITI FORMULA 1 ENGINEERING ACADEMY

- Selected as top 10 in China Regional Contest

### PARTICIPATED IN CODING CONTESTS

- Microsoft, IEEE, McMaster Engineering Contest
- Collaborated with a team to write code both individually and cooperatively

### WON 3<sup>RD</sup> PLACE IN MCMASTER SUMO BOT COMPETITION 2018

- Sorted out the coding, circuitry, and mechanical design by 4 team members
- Experienced engineering design process
- Creativity, time management, problem-solving, communication and collaboration skills are practiced

## LEARNING IN PROGRESS

- Ruby on Rails
- MySQL
- System design
- Flask + Python

## HOBBIES

- Cooking
- Motorsports