

linkedin.com/in/kefan-cao-2801bb165/ https://kefancao.com

Motivated and quick-learning Software Engineer with over two years of experience. If you feel like my skills or expertise align with what you need, please feel free to shoot me an email!

#### **EXPERIENCE**

## Software Developer (Micro-controller)

Aug, 2021 - Current

Waterloop, a hyperloop team

- Contributed to the micro controller firmware for one of the largest student-led hyperloop teams in Canada.
- Collaborated with other team members to develop and rigorously tested the firmware using tools and technologies including C, Python, Git, GitHub.

## System Integration Coordinator - Outstanding Co-op rating (best possible)

April, 2021 - Aug, 2021

Strauss Event & Association Management

Winnipeg, MB

- Developed documentation revolving project management software(ClickUp and Asana) for national associations including the Canadian Jewellery Group, Pedorthics Association of Canada, the College of Pedorthics, and Promotional Professionals of Canada.
- Developed Python applications to automate report generation by querying data from membership databases of over 3000 members; eliminated the need for temporary workers for this job. Saving the company over \$3,000 each quarter.
- Reduced the number of software dependencies by 30% which brought business software costs down by 40%.
- Coordinated major events such as the Canadian Jewellery Group Buying Show (over \$5 million in cash flow)

## Sales Associate (Top Salesman in Ontario)

Nov, 2017 - July, 2020

Mark's Workwear

Windsor, ON

- Maintained excellent customer service and ensured customer satisfaction.
- Process cash payments and deposit slips.
- Upsold and marketed the Canadian Tire Mastercard as the # 1 salesman in the south western Ontario region. Had a higher sales stat than over 60% of the stores alone.

#### **PROJECTS**

## QuickChat, Real-time Chat Application

https://romantic-heyrovsky-3c637f.netlify.app

- A chat room web app that allows users to join a room with a room key both anonymously or as a sign-in user.
- Developed a real time chat application utilizing technologies including React and Firebase.
- Provides optional authentication methods including Google Sign-in or Username and Password from the webapp.

#### kefancao.com, A portfolio website

https://kefancao.com

- A portfolio website showcasing myself and some of my skills and projects.
- Utilizes CSS 3D transformations to create animated objects such as business cards and project cubes.
- · Applied concepts of Linear Algebra and Trigonometry in combination with React to achieve animation.

## QuickType, Typing Test Web App

https://quicktype.tech

- A typing test web app that supports timed typing tests which gives an accurate adjusted word per minute to the user.
- Incorporates dynamic styling of characters to signal user if correct or incorrect.
- Created using a combination of **React and Firebase** (to store user history).

## River Deliver, Founder (2020 Summer Company Winner)

July 2020 — Aug 2020

- A grocery delivery/errands company, winner of a \$3000 Entrepreneurship Fund from a pool of 70 applicants.
- Developed a fully functional ordering web app using React, Firebase, and Email.js.
- Attracted over 100 users/customers throughout the summer.

## **EDUCATION**

Bachelor of Computer Science, University of Waterloo, GPA: 4.0/4.0

Sept 2020 — June, 2025

Coursework: Object-Oriented Software Development - 100%, Advanced Algorithmic Design - 100%, Functional Program Design - 96%

# TECHNICAL SKILLS

Programming/Scripting

Bash, C, C++, Java, Javascript, Python, SQL

Tools/Technologies HTML/CSS, Bootstrap, Git, LaTex, Firebase, NoSQL, MySQL, MongoDB, React.js, Node.js, UML (Unified

Modelling Language)

## **AWARDS & HONORS**