

# Bill Zeng

Software Engineer, Full Stack



billzeng.me



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github.com/billzeng2k

## EDUCATION

University of Waterloo

Bachelor of Computer Science

2018-2023

Third year

85% Faculty Average

## AWARDS

Canadian Computing Contest

8<sup>th</sup> out of 2000+ participants

2018

Canadian Computing Olympiad

Silver Medalist

2018

Euclid Math Contest

Honourable Mention

6<sup>th</sup> out of 20000+ participants

2018

## SKILLS

React	Angular
REST API	GraphQL
AWS	Firebase
C++	Javascript
Python	HTML
MongoDB	MySQL

## EXPERIENCE

Software Engineer

Kitchenmate | Summer 2019

- Implemented a graph search SQL algorithm to aggregate the cost of ingredients for each dish, driving a **37% decrease in food costs**
- Created database migration diff tool and automated backup system, **preventing data loss and improving developer velocity**
- Bootstrapped a delivery system that streamlined delivery routes and reorganized shipments, **decreasing packaging times by 30% and eliminated shipment location errors**, while delivering **real time delivery notifications to customers**
- Designed and built the company website (**kitchenmate.com**)

Programming Teacher

Triway Education | 2016

- Led a robotics team that qualified for the **provincial Vex Robotics competition**
- Helped expand school to **3 locations and 300+ students**

## PROJECTS

Quick Maths

Facebook Instant Game | Fall 2018 | React

- A math game that promotes friendly competition amongst friends
- Implemented score sharing, friend challenging, leaderboards and ads
- 22k unique users

Flastronaut

Ludum Dare 39 | Summer 2017 | Unity

- A game played from the perspective of a flashlight wielding astronaut, whose duty is to grow life on another planet while protecting it from evil spirits
- Implemented player controls, enemy AI, game mechanics and art assets in three days
- Ranked in the top 10 percentile out of 2000+ submissions

Bubbly

Hack the 6ix | Summer 2019 | React, Bluetooth, Arduino

- An interactive LED bubble wall that reacts to user input
- Designed UI, connected web interface with Arduino via bluetooth
- Placed top 10 overall