

Zachary Koo

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EDUCATION

University of Calgary - Bachelor of Science in Computer Science and Biological Science

Expected graduation on December 2022

GPA in Computer Science: 3.67

SKILLS

Software Development

Languages: Java, C, C++, Haskell, Python, Go, SQL, Javascript(Vue, Angular) **Technologies:** Git, Linux

PROJECTS

EcommerceWebApplication - <https://github.com/zacharykoo/EcommerceWebApp>

January 2022 - May 2022

- Created backend database using GORM, repository using SQLite and services, API handlers for an E-commerce application using **Golang**
- Frontend connection and API requests including GET, SET and POST requests using **Angular**

DistributedSystem - <https://github.com/zacharykoo/DistributedSystem>

February 2022 - May 2022

- Peer-to-Peer Distributed system created using B-multicast algorithm which contains own peer process and a registry process in **Java**
- Implemented system communications using paradigms, included fault tolerance and coordination with timed system paired with ACKs
- Connection is established by UDP Datagram socket and can handle a minimum of 121 users concurrently with at most 7.76 ms delay

Self-checkout software - <https://github.com/zacharykoo/selfcheckoutProject>

January 2022 - April 2022

- Self-Checkout System handles items in database by using PLU code or scanning Barcode paired with respective observers
- Each components of the software were tested with 100% branch coverage to ensure application is functionally implemented using **Java**

NotScribbl.io, "Nightowl Studios" - real time drawing guessing game <https://github.com/nightowl-studios/arcade>

JUNE 2020 - December 2020

- Backend websocket connection and API service implemented using Gorilla, drawing tool canvas with event handlers implemented in **Golang**
- Web client, frontend communication with general web application designs in **VueJS**

EXTRACURRICULAR ACTIVITIES:

Competitions:

- Alberta Collegiate Programming Contest - 12th (2020)
- Calgary Collegiate Programming Contest - 6th (2021)
- Member of University of Calgary Competitive Programming Club (2020-PRESENT)

School activities:

- Executive of Badminton Club at the University of Calgary (2017 - 2018)

Volunteering:

- Children Hospital's Rotary Flame House (2015 - 2017)
- Foothills Medical Center's HELP program (2014 - 2017)
- Calgary Chinese Pentecostal Church's Youth Summer Camp (2011 - 2014)