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, Golang, SQL, Technologies: Git, Linux Javascript(Vue, Angular)

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 and ensure 100% branch coverage to verify application is functionally implemented in Java

NotScribbl.io, "Nightowl Studios" - https://aithub.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)