Zachary Koo

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EDUCATION

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

GPA in Computer Science: 3.67

SKILLS

Software Development

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

WORK EXPERIENCE

Student Enrollment System - University of Calgary

August 2022 - CURRENT

- Modifying Web-enabled, group-scheduling system for University of Calgary, allowing students to view and print schedules for current and future semesters using PHP.
- Innovated time-saving, robust data-intake system that automates and modifies databases using mySQL.

PROJECTS

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

January 2022 - May 2022

- Created backend database management using GORM, repository and query using SQLite. API handlers and services for the E-commerce application are created in Golang
- Established frontend connection with API 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 a peer process and a registry process in Java
- Implemented system communications using paradigms, including fault tolerance and coordination with timed systems paired with ACKs
- Connection is established by UDP Datagram socket and can handle a minimum of 121 users request concurrently with at most 7.76 ms delay

Self-checkout software - https://aithub.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 component of the software is tested and has 100% unit test coverage to ensure the 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 UI were designed in VueJS

EXTRACURRICULAR ACTIVITIES:

Competitions:

Alberta Collegiate Programming Contest - 12th
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)