

# Charles Ancheta

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Engineering  
at Alberta

## UNIVERSITY OF ALBERTA – ACADEMIC AND CO-OP STATUS

<b>Computer Engineering, BSc</b>	Class of 2023	Completed Academic Terms	5 of 8
Cumulative GPA	3.5/4.0	Completed Co-op Terms	0 of 5
Availability starting January 2021	4 or 8 months		

**Courses:** Computer Architecture, Object-oriented Software Design, Algorithms and Data Structures, Tangible Computing, Digital Logic Design, Microcontrollers, Discrete-time Signals, Circuits

## TECHNICAL SKILLS

**Languages:** Javascript/Typescript, C/C++, Java, Python  
**Web/Mobile:** React, NodeJS, Express, React Native  
**Systems/Version Control:** Linux, VMWare, AWS EC2, Git  
**Hardware:** Arduino, AVR-C, LTSpice  
**Databases:** MongoDB, PostgreSQL

## PROJECTS

- Computer from scratch ([github.com/cbebe/computer-from-scratch](https://github.com/cbebe/computer-from-scratch))** August 2020 – Present
- A virtual machine that simulates the logic of a simple CPU by decoding machine code
  - Includes an assembler that assembles a constructed language into the machine code of the processor
- Community Mancala game ([github.com/cbebe/cbebe](https://github.com/cbebe/cbebe))** July – August 2020
- An interactive Github page for a Mancala board game using Github Actions
  - Provides links to pull requests to make moves in the Markdown of the repository's README
  - Pull requests are processed by a cloud virtual machine to reflect the results of the move into the README
- Cbebe shell ([cbebe.xyz](https://cbebe.xyz))** June – July 2020
- A static webpage that simulates a terminal built using HTML, CSS, and vanilla Javascript
  - Served using nginx HTTP server on an AWS EC2 cloud instance
- Mybrary ([github.com/cbebe/mybrary](https://github.com/cbebe/mybrary))** April 2020
- A Basic CRUD application for storing and viewing books using Node, ExpressJS, and MongoDB
- 10FastFingers.com Typing Bot ([github.com/cbebe/typing-machine](https://github.com/cbebe/typing-machine))** July 2020
- Uses NodeJS puppeteer to automatically type words on 10fastfinger.com's typing test
- Arduino Checkers AI ([github.com/cbebe/Checkers-AI](https://github.com/cbebe/Checkers-AI))** April 2020
- An interactive Arduino touch screen game with an opponent Minimax AI controlled by a Linux desktop
  - Sends board states between the Arduino and the desktop using serial communication

## WORK EXPERIENCE

- Food Service Crew** August 2019 – Present  
Chachi's, Edmonton Premium Outlet Collection, Nisku, AB
- Prep Cook** August 2016 – June 2019  
Albert's Family Restaurant, Edmonton, AB

## ADDITIONAL INFORMATION

**Travel** – Willing to relocate anywhere within Canada