

Signory Somsavath

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EDUCATION

University of Illinois at Chicago

Bachelor of Science in Computer Engineering

Graduated: Dec. 2020

GPA: 3.21

Elgin Community College

Associate in Engineering Science with Honors

Graduated: May 2018

GPA: 3.00

RELATIVE COURSEWORK

- Data Structures • VLSI Design • Advanced Computer Architecture • Computer Organization • Linear Algebra
- Computer Networks • Testing, Reliability, and Security • Digital System Design • Foundation of Computing

PROJECTS

Spotify/Youtube Playlist Generator

Jan. 2021 - Feb. 2021

Desktop Script

- Worked on/and fixed issues on an open-source code on github filled with bugs from updated API's and modules, which allowed for the user to "like" a video on Youtube and the track be added on a Spotify playlist
- Re-built a python script from the pre-existing one for optimizations
- Worked with many technologies (e.g., Youtube Data API, Spotify Web API, Request Library) allowing for the script to communicate between Spotify and Youtube interface

Testing, Reliability and Security

Sept. 2020 - Nov. 2020

Fault Simulator

- Developed and constructed a fault simulator using Python, which takes in a user circuit to simulate a full fault coverage.
- Able to produce all test vectors for a given circuit and to deduce whether the test vectors can detect a fault given by the test vectors.
- Used basic recursive algorithms to reduce a full fault list from redundancy cutting down in computation time by more than 20% when given circuits with more than 1000 different combinations.

Sprout (Co-Founder)

May 2020 - Jun. 2020

Mobile Delivery Startup Application

- Created a barebone delivery app using technologies (e.g., Flutter, Dart, JavaScript, Google Maps API)
- Pitched to private dispensaries in the Chicagoland area to legally distribute cannabis using our mobile application
- Collaborated with Hypur (CTO & Software Developers) banking system in creating an API compatible with Flutter for legal cannabis transactions registered through the Illinois system.

Senior Design

Aug. 2019 - Mar. 2020

Automated Window Opener

- Collaborated with 3 students in creating a device that can open windows via Bluetooth using an Arduino.
- Surveyed 30+ students/faculty on best design and practicality needs to create a prototype.
- Design the physical hardware and software to work with Android devices using C/C++

Data Structures

Nov. 2018 - Dec 2018

Service Queue

- Created and developed a simulation of a server serving items using data structures like double linked list to act as a queue and implement algorithms to stay within bounds of runtime using C++.

EXPERIENCES

J.P. Morgan Chase – Elgin, IL

Feb. 2016 – Feb. 2018

Bank Teller

- Accurately managed and executed monetary transactions such as deposits, payments, and withdrawals
- Referred clients to business partners based on financial needs in order to build customer loyalty
- Assisted in answering telephone calls in a courteous manner
- Maintained confidential bank records and client information
- Earned management trust by serving as a key holder (responsible for opening and closing the branch)

TECHNICAL SKILLS

Programming Languages/Frameworks:

Python • C/C++ • HTML/CSS • JavaScript • x86 Assembly • Verilog • C • BASH • Dart • Flutter

IDE's: Visual Studio • IntelliJ IDE

Language: Proficient in English & Laos