Paul Alvarez

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- Portfolio

🎓 Education

California State University San Bernardino

BS Computer Engineering (Deans List) · *San Bernardino, CA*

⚗ Projects

FACIAL RECOGNITION SMART LOCK · SENIOR DESIGN PROJECT

> Worked in a team to design and implement a fully functional prototype Smart Lock project which could be opened by app, keypad password, or facial recognition
> Used OpenCV library for Facial Recognition
> Created a java android app to interact with lock through Bluetooth
> Implemented with python on a Raspberry Pi system in conjunction with an Arduino

TETRIS ON MICROCONTROLLER

> Made with Atmel micro-controller along with 2 shift registers, 2 axis joystick, 8 x8 led matrix and LCD screen
> Using Atmel studio along with C++ to manipulate bits for input/output on the micro-controller to control all external devices and create game

TWITCH CHAT WEB-APP

> Twitch web app to send and receive messages from twitch stream chats
> Developed using Reactjs forfront end, Node.js and express.js for backend routing

CHIP 8 EMULATOR

> Interpreter that emulates the Chip-8 processor with input and output and Developed with C++ and SDL2

📊 Experience

Walmart · July 2020 – March 2023

Sales Associate · *Moreno Valley, CA*

> Ran Cashier in Automotive department .Collaborated with coworkers to efficiently and quickly solve any customer concerns

RIVERSIDE TILE FLOOR PREPARATION · June 2016 – July 2020

BILLER · *Riverside, CA*

> Reconciled past due accounts achieving 100 percent reduction in outstanding invoices.
> Produced large volumes of client invoices using Microsoft Excel.
> Verified accuracy of accounts payable payments,resulting in 90 percent reduction in payment errors and check reissues

CSU San Bernardino · Dec 2018 – June. 2019

Tutor / Instructional Student Assistant · *San Bernardino, CA*

> Assessed student assignments to check quality and completeness and Assigned grades for coursework and tests
> Worked in a team to tutor a computer science lab classroom of over 40 students in programming course materials
> Collaborated with students to complete homework assignments, identify lagging skills and correct weaknesses

⚙ Skills

Languages   C/C++, Javascript, Python, , HTML/CSS, mySQL
Frameworks   Reactjs, Nodejs, Expressjs