

ALMIR CHOWDHURY

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EDUCATION:

Syracuse University, College of Engineering and Computer Science
Bachelor of Science, Computer Science

May 2025

RELEVANT COURSEWORK & SKILLS:

Intro to Computing(**Python**), Data Structures & Algorithms(**Java**), Principles of Programming Languages(**HASKELL**), Systems and Network Programming(**BASH**), Comp Organization & Prog Systems(**C++**), **HTML**, **CSS**, **Javascript**

COMPUTER SCIENCE APPLICATIONS:

Mobile-controlled LED Light Display

October 2022

- Used **ESP32 microcontroller**, WS2812B LED strip, and **WLED** firmware to create a custom, mobile-controlled LED display.
- Employed **soldering skills** and **Flashed WLED** firmware onto ESP32 and established **seamless communication** to **WIFI**. Enhancing skills in **microcontroller programming, hardware interfacing, soldering, open-source firmware usage, and IoT principles**

Python OCR Text Extraction Snipping Tool

August 2023

- Developed a snipping tool that takes a screenshot and allows you to select a region within your desktop and **extracts the text** from the image allowing you to copy it to the clipboard using the **PyTesseract framework**.
- Used **Tkinter** to develop the **GUI** with a capture button that allows you to take a screenshot from any window

Wallpaper Engine Custom Effect

March 2021

- Developed and implemented a dynamic wallpaper effect using **SceneScript** for Wallpaper Engine. Utilized a **fragment shader** to shift the hue of an input texture in real-time, creating an audio-reactive experience
- **Published** the wallpaper effect on Steam Workshop, showcasing my ability to create and share innovative solutions with a community

WORK EXPERIENCE:

Self-Employed, Wholesale Apparel Sales, FullStack Website

January 2021 - Present

- Established and **operated a profitable wholesale apparel business, generating over \$5,000** in revenue through sales to schools and large organizations.
- Developed a user-friendly FullStack website using **React.js** and **Node.js** with **Express.js**, integrating the **Stripe API** for secure payment processing.
- Implemented a **MongoDB-backed database** with **Mongoose ODM**, supporting user registrations, order tracking, and product management
- Implemented a custom order management system to facilitate seamless group orders and individual payments.

Legal Sea Foods Somerville, MA

August 2022 - Present

- Excelled in customer interaction and efficient seating management at Legal Sea Foods, enhancing dining experiences through effective **communication** and **organization**.
- **Coordinated** with service staff to ensure smooth operations, resolving customer issues promptly and maintaining high service standards.

LEADERSHIP & ACCOMPLISHMENTS:

HelloMessenger - Secure Messaging App

December 2023

- **Best Security Hack Award** at CuseHacks
- Created a secure messaging app using **React-Native, Gun, NodeJS, and Firebase**.
- Worked on **Google authentication** using Firebase
- Led backend development using **Gun** for **decentralized data storage**, integrating it with a **React Native** frontend.

Arlington Catholic Class President

January 2019 - May 2021

- Spearheaded a fundraising initiative that **raised over \$1,500** for our high school prom, demonstrating effective project management and fundraising skills.
- Led regular meetings with school administrators and student representatives to discuss and resolve class issues, honing my **leadership and communication skills**.
- Facilitated community-building activities and events that **increased student engagement and school spirit**.