Almir Chowdhury

Medford, MA 02155

https://almirchowdhury.github.io/almirchowhury.github.io/

almirchowdhury@gmail.com

+1 781 475 7550

Authorized to work in the US for any employer

Passionate Computer Science student with strong programming skills seeking a challenging internship. A fast learner committed to applying my abilities to real-world projects, contributing to team success, and enhancing my technical expertise.

Work Experience

Self-Employed, Wholesale Apparel Sales, FullStack Website

- 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.

Leadership

Arlington Catholic Class President

2019 - 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.

Education

Pursuit of B.S. in Computer Science

Syracuse University Class of 2025 - Syracuse, NY

High school diploma

Arlington Catholic High School Class of 2021 - Arlington, MA

Relevant Coursework

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

Personal Projects

Mobile-controlled LED Light Display

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

Python OCR Text Extraction Snipping Tool

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

Wallpaper Engine Custom Effect

- 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.