

Pratush Kc

www.linkedin.com/in/pratush-kc-533536141 | GitHub: <https://github.com/PKC42>

Website: <https://pkc42.github.io>

Skills

Programming Languages and Skills: C, C++, Python, SQL, HTML, CSS, Git

Operating Systems: Windows 10, Linux

Software: Solidworks, Autodesk Eagle, KiCad, Multisim, Cura, MPLAB, Docker, Nginx, Wireshark, WireGuard, Nessus Vulnerability Scanner, John the Ripper, Ncrack, Nmap, Easy-RSA

Education

B.S.E in Electrical Engineering and Computer Science, Minor in Mathematics

January 2023

University of Massachusetts Lowell, Lowell, MA

Cumulative GPA: 3.035

Computer Science Major GPA: 3.503

Projects

20-20-20 Project (Ongoing)

- Personal project written in Python with the objective of combating eye fatigue
- Utilizes OpenCV for facial detection and Tkinter for GUI
- Designed to record work habits and prompt user to look away at a far target after 20 consecutive minutes of facial detection for at least 20 seconds

SecureDrop (2022)

- Worked in a team of 3 to implement a secure file transfer system in Python which allows for encrypted file transmission between users using a PKI for authentication and security

Senior Capstone Project (2021 – 2022)

- Worked in a team of 4 to fabricate a spoon specially designed for users with disabilities
- Designed a printed circuit board using Autodesk Eagle
- Wrote code to test individual parts

Dynamic N-Body Simulation in C++ (2022)

- Utilized object-oriented programming concepts and SFML to simulate the movement of an N number of celestial bodies within a universe given velocity, acceleration, location, and mass

Evil Hangman in C (2022)

- Utilized a binary tree, a C implemented vector and unit testing to create a game of Hangman that is nearly impossible to beat

Work Experience

Kiosk Technician at Magnet Analytics, Lexington MA

(2017 – 2022)

- Replenished automated kiosks with products
- Analyzed sales to decide on product mix
- Troubleshoot and repaired faulty kiosks
- Filled out purchase order forms depending on the status of the current inventory

Summer Engineering Intern at Novatio Engineering, Waltham MA

(Summer 2018)

- Worked with engineers to manufacture, package, and deliver sheet metal parts
- Organized and cleaned the workplace + tracked orders and receipts