Pratush Kc

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www.linkedin.com/in/pratush-kc-533536141 | GitHub: https://github.com/PKC42
Website: https://pkc42.github.io

Skills

Programming Languages and Skills: C, C++, MIPS, Python, SQL, HTML, CSS. Git
Operating Systems: Windows 10, Linux
Software: Visual Studio Code, Visual Studios, Solidworks, Autodesk Eagle, KiCad, Multisim, Docker, Nginx

Education:

B.S.E in Electrical Engineering and Computer Science, Minor in Mathematics   **2018-2022**
University of Massachusetts Lowell, Lowell, MA
Cumulative GPA: 3.035
Computer Science Major GPA: 3.503
Relevant Coursework:

- Computing I, Computing II, Computing III, Computing IV, Organization of Programming Languages, Microprocessors I, Intro to Cyber Security, Cyber Defense

Projects

20-20-20 Project (Ongoing)
- Personal Project developed in python to help combat 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

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.

Image Encryption in C++ (2022)
- Utilized object-oriented programming concepts and SFML to encrypt and decrypt an image using a simulated linear feedback shift register.

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

Work Experience

Kiosk Technician at Magnet Analytics, Lexington MA   **(2017 – 2022)**
- Replenished automated kiosks with products
- Analyzed sales to decide on product mix
- Troubleshot 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 workplace
- Tracked orders and receipts